

**LOCTITE®**

# The Adhesive Sourcebook

2017 VOLUME 20

*Your Source for*

**LOCTITE® PRODUCTS FOR DESIGN, ASSEMBLY,  
MANUFACTURING AND MAINTENANCE**



**Henkel**



# 1 Why Adhesives?

Welcome to the 2017 edition of The Adhesive Sourcebook. This comprehensive guide to LOCTITE® products is designed to simplify your adhesive selection process. Each section includes helpful decision trees, product descriptions, properties charts, and related dispensing equipment to provide you with a total solution.

For more than 60 years, the LOCTITE® brand has helped countless companies increase reliability, reduce downtime, and improve manufacturing processes. LOCTITE® is the trusted choice for engineered, high-performance adhesive, sealant and coating solutions. Our expansive product portfolio offers solutions for the most demanding design, manufacturing and maintenance challenges.

## BENEFITS OF ADHESIVES

LOCTITE® adhesives are a superior alternative to mechanical fastening and joining methods for almost every application. Here are a few examples:

- Join dissimilar substrates, e.g., plastics, metals, etc.
- Distribute stresses evenly
- Fill large gaps
- Seal, bond and protect parts
- Improve cosmetic appearance
- Easily automate manufacturing processes
- Promote a competitive advantage
- Improve reliability, quality
- Reduce overall production costs

## BACKED BY HENKEL

The LOCTITE® brand is backed by the resources of Henkel, the leading solution provider for adhesives, sealants and functional coatings worldwide. Henkel offers much more than quality adhesives – we work as a partner with customers to help solve their toughest challenges. Henkel's resources include:

**Engineering Services:** 10 R&D centers worldwide staffed by 3,000 design, application and manufacturing reliability professionals

**Innovation:** More than 30% of our sales come from products launched in the past five years

**Complete Equipment Line:** Dispensing and curing equipment that can be easily integrated into your manufacturing process

**Global Support:** With a presence in more than 70 countries, Henkel can provide support worldwide.

# LOCTITE®



# The Adhesive Sourcebook 2017

2

Your Source for  
**LOCTITE® PRODUCTS FOR DESIGN, ASSEMBLY,  
MANUFACTURING & MAINTENANCE**



## ENHANCEMENTS

### New Product Names

As you review the 2017 Adhesive Sourcebook, you may notice that some of our product names have changed. This is the result of a Henkel program to simplify our global brand portfolio. All our products are now grouped under five main technology brands: LOCTITE®, BONDERITE®, TECHNOMELT®, TEROSON® and AQUENCE®. As part of this process, some product names and labels have changed.

To find a product quickly, you can refer to the **Cross Reference Index on pg. 209** for a list of legacy product names and the corresponding new names.

While some of our product names may be different, you will still receive the same quality LOCTITE® adhesives and sealants that you know and trust.

If you have any questions, please contact us at 1-800-LOCTITE (562-8483).

## ADDITIONAL RESOURCES AVAILABLE

*The Adhesive Sourcebook* is supported by technical product assistance over the phone and on the web.

### On the Phone

1-800-LOCTITE (562-8483) – U.S.  
1-800-263-5043 – Canada

Immediate technical assistance is available from 8 a.m. to 5 p.m. ET, Monday through Friday.

### Technical Product Assistance

**Application Assistance** – Receive local application assistance from the Henkel Adhesive and Sealant Specialist in your area.

### Website

[na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite)

In addition to support from your local representative, our website, [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite), is your source for locating distributors, safety and technical data sheets, literature and product application assistance. Here is a brief overview of what our website has to offer:

**E-Catalog** – Gain quick and easy access to product descriptions, approvals/specifications, application suggestions, package specifications, technical and material safety data sheets, and more.

**Application Assistance** – Application assistance aids in narrowing the range of products suitable for your design and maintenance needs. Or send a message to your local Adhesive and Sealant Specialist to arrange “in-person” assistance.

**Distributor Locator** – Find a local distributor in the U.S. or Canada that has the product you need. All it takes is a zip or postal code.

**Data Sheets & Literature** – Instant access to Technical Data Sheets and Material Safety Data Sheets. View electronic versions of our design guides, bonding guides, quick reference tools and other special literature.

**What's New?** – Find out about new LOCTITE® product introductions, feature articles, trade show schedules and application success stories. Register online for adhesives seminars or CEU-accredited Manufacturing Reliability Training classes in your area.

**Your Source for  
LOCTITE® PRODUCTS  
FOR DESIGN, ASSEMBLY,  
MANUFACTURING &  
MAINTENANCE**

At Henkel Corporation, we invent more than just quality LOCTITE® products. We provide solutions to industry's biggest challenges. Whether we are reducing assembly cost, providing design and application assistance, or increasing the reliability of your process, Henkel is dedicated to earning and keeping the trust of its customers. Through this philosophy, Henkel has assumed a position of worldwide leadership.

# Contents

<b>5</b>	<b>Bonding</b>
<b>7</b>	<b>Instant Bonding</b>
7	Cyanoacrylate Adhesives
11	Cyanoacrylate Adhesive Equipment
13	Hot Melt Adhesives
17	Hot Melt Adhesive Equipment
19	Light Cure Adhesives
23	Light Cure Adhesive Equipment
27	Solvent-Based & Specialty Adhesives
<b>29</b>	<b>Flexible Bonding &amp; Sealing</b>
29	Elastomeric Adhesives for Bonding & Sealing
32	Elastomeric Equipment
<b>33</b>	<b>Structural Bonding</b>
33	Two-Step Acrylic Adhesives
36	Two-Step Acrylic Adhesive Equipment
37	Two-Part Acrylic Adhesives
40	Two-Part Acrylic Adhesive Equipment
41	Epoxy Adhesives
45	Epoxy Adhesive Equipment
47	Polyurethane Adhesives
48	Polyurethane Adhesive Equipment
<b>49</b>	<b>Coatings</b>
51	Protective Coatings
55	Wear-Resistant Coatings
<b>59</b>	<b>Flooring &amp; Concrete Repair</b>
61	Anti-Slip Coatings
63	Flooring, Concrete Repair & Grouting

<b>67</b>	<b>Gasketing &amp; Sealing</b>
69	Anaerobic & RTV Gasketing & Sealing
72	Anaerobic & RTV Gasketing & Sealing Equipment
73	Elastomeric Gasketing & Sealing
78	Elastomeric Gasketing & Sealing Equipment
79	Windshield Glass Installation (DGX)
80	Windshield Glass Installation (DGX) Equipment

<b>81</b>	<b>Lubricating</b>
83	Anti-Seize
87	Lubricants

<b>91</b>	<b>Machining Compounds</b>
-----------	----------------------------

<b>95</b>	<b>Potting, Molding &amp; Encapsulating</b>
97	Epoxies & Polyurethanes
101	Silicones
104	Silicone Equipment
105	Hot Melts
107	Hot Melt Equipment
109	Low Pressure Molding

<b>113</b>	<b>Repairing, Rebuilding &amp; Restoring</b>
115	Belt Repairs & Urethanes
117	Maintenance & Repair Epoxies

<b>121</b>	<b>Retaining</b>
123	Retaining Compounds
127	Retaining Compound Equipment

<b>129</b>	<b>Surface Cleaning</b>
130	Cleaners & Degreasers



# Contents

<b>133</b>	<b>Threadlocking</b>
135	Threadlockers
139	Threadlocker Equipment
<b>141</b>	<b>Thread Sealing</b>
143	Thread Sealants
147	Thread Sealant Equipment
<b>149</b>	<b>Toolboxes &amp; Specialty Kits</b>
<b>151</b>	<b>Medical Device Adhesive Solutions</b>
153	Medical Device Light Cure Acrylic Adhesives
156	Medical Device Adhesive Curing Equipment
157	Medical Device Cyanoacrylate Adhesives, Accelerators & Primers
160	Medical Device Adhesive Dispensing Equipment
161	Medical Device Epoxy & Urethane Adhesives
162	Medical Device Epoxy & Urethane Adhesive Dispensing Equipment
<b>163</b>	<b>Equipment</b>
165	Controllers & Reservoirs
165	Light Cure Equipment
166	Handheld Applicators
166	Handheld Valves
166	Dispense Systems
167	Valves & Pumps
167	Two-Part Volumetric Dispensing
168	Hot Melt Equipment
168	Motion Control Robot Dispense Systems
168	Consumables – Dispense Accessories

<b>169</b>	<b>Equipment – Motion Control Robot Dispense Systems</b>
<b>171</b>	<b>Equipment – Two-Part Volumetric Dispensing</b>
171	LOCTITE® Posi-Link™ Dispense System for Dual Cartridges
173	LOCTITE® Meter Mix Systems
<b>174</b>	<b>Equipment – Consumables – Dispense Accessories</b>
<b>181</b>	<b>Agency Listings</b>
<b>183</b>	<b>Technical Reference</b>
<b>185</b>	<b>Engineering Services</b>
<b>187</b>	<b>OEM Training Services</b>
<b>188</b>	<b>MRO Training Services</b>
<b>189</b>	<b>Index by Item Number and Product Name</b>
<b>202</b>	<b>Cross-Index of Legacy Item Number to IDH Number</b>
<b>208</b>	<b>Index by Chemistry</b>
<b>209</b>	<b>Cross-Index of Legacy Product Name to New Product Name</b>

# Bonding



<b>5</b>	<b>BONDING</b>
<b>7</b>	<b>INSTANT BONDING</b>
7	Cyanoacrylate Adhesives
11	Cyanoacrylate Adhesive Equipment
13	Hot Melt Adhesives
17	Hot Melt Adhesive Equipment
19	Light Cure Adhesives
23	Light Cure Adhesive Equipment
27	Solvent-Based & Specialty Adhesives
<b>29</b>	<b>FLEXIBLE BONDING &amp; SEALING</b>
29	Elastomeric Adhesives for Bonding & Sealing
32	Elastomeric Equipment
<b>33</b>	<b>STRUCTURAL BONDING</b>
33	Two-Step Acrylic Adhesives
36	Two-Step Acrylic Adhesive Equipment
37	Two-Part Acrylic Adhesives
40	Two-Part Acrylic Adhesive Equipment
41	Epoxy Adhesives
45	Epoxy Adhesive Equipment
47	Polyurethane Adhesives
48	Polyurethane Adhesive Equipment

## WHY BOND ASSEMBLIES?

The use of adhesives can provide a great alternative to many of the industry failures we see today. For successful bonding, knowledge of adhesive methodology is essential. The most frequent causes for adhesive failure do not involve adhesive strength. Rather, they are attributed to inadequate preparation of the substrates and improper adhesive selection. The most important factor in proper adhesive selection is assessing the environment the adhesive must withstand. Once the environmental factors have been recognized, adhesive selection becomes more easily defined because other factors – such as joint design, substrates, load and stress cycles – can often be varied or altered with minor design changes.

## BONDING

Adhesive bonding is a process in which two similar or dissimilar materials are united permanently. Adhesives build “bridges” between the surfaces of substrates to be joined.

## ADVANTAGES OF ADHESIVE BONDING COMPARED TO CONVENTIONAL JOINING METHODS:

- **More uniform stress distribution over the entire bond face:** This has a very positive effect on the static and dynamic strength achieved. Where welding and riveting result in localized stress peaks, adhesive bonding achieves uniform distribution and absorption of stress loads.
- **No change in surface and texture of the joined materials:** Welding temperatures may change the texture and, therefore, the mechanical properties of materials. In addition, welding, riveting and bolting all affect the visual appearance of the parts.
- **Weight saving:** Adhesives are particularly popular for light-weight constructions, where thin-walled parts (wall thickness < 0.5 mm) must be joined.
- **Sealed joints:** Adhesives also act as sealants, preventing loss of pressure or liquids, blocking the penetration of condensation water and protecting against corrosion.
- **Joins dissimilar materials and reduces the risk of corrosion:** The adhesive forms an insulating film to prevent contact corrosion when different types of metals are joined. It also acts as electrical and thermal insulator.

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; *within Canada, call 1-800-263-5043*; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

PERFORMANCE CONSIDERATIONS	ADHESIVE CATEGORY								
	CYANOACRYLATES	EPOXIES	HOT MELTS	LIGHT CURE	SILICONES	ELASTOMERS	URETHANES	2-PART ACRYLICS	2-STEP ACRYLICS
<b>BENEFITS</b>	Wide range of bonding applications/ease of use	Wide range of formulations	Versatile, fast, large gap filling	Rapid cure/adhesion to plastics/bond on demand	Excellent temperature resistance	Flexible, paintable, bonder/sealant	Excellent toughness/flexibility	Good impact resistance/flexibility	Good impact resistance/no-mix
<b>LIMITATIONS</b>	Low polar solvent resistance	Mixing required	Limited heat resistance	Light cure required	Low adhesion resistance	High temperature resistance	Sensitive to moisture	Mixing required	Primer required
<b>TEMPERATURE RESISTANCE</b>									
Typical for the category	-65°F to 210°F (-54°C to 99°C)	-65°F to 180°F (-54°C to 82°C)	-65°F to 250°F (-54°C to 121°C)	-65°F to 300°F (-54°C to 149°C)	-65°F to 400°F (-54°C to 204°C)	-65°F to 200°F (-54°C to 93°C)	-65°F to 250°F (-54°C to 121°C)	-65°F to 250°F (-54°C to 121°C)	-65°F to 300°F (-54°C to 149°C)
Highest rated product	250°F (121°C)	400°F (204°C)	330°F (166°C)	356°F (180°C)	725°F (385°C)	200°F (93°C)	300°F (149°C)	250°F (121°C)	400°F (204°C)
<b>ENVIRONMENTAL RESISTANCE</b>									
Polar Solvents (EX.: H <sub>2</sub> O, ETHYLENE GLYCOL, ISOPROPYL ALCOHOL (IPA), ACETONE)	Poor <sup>1</sup>	Very Good	Good	Good	Good	Good	Good	Good	Good
Nonpolar Solvents (EX. MOTOR OIL, TOLUENE, GASOLINE, ATF)	Good	Excellent	Good	Very Good	Poor to Fair	Poor	Good	Very Good	Very Good
<b>ADHESION TO SUBSTRATES</b>									
Metals	Very Good	Excellent	Good	Good	Good	Very Good	Good	Excellent	Excellent
Plastics <sup>2</sup>	Excellent	Fair	Very Good	Excellent	Fair	Good	Very Good	Excellent	Fair
Glass	Poor	Excellent	Good	Excellent	Very Good	Good	Good	Good	Excellent
Rubber	Very Good	Fair	Fair	Fair	Good	Poor	Good	Poor	Poor
Wood	Good	Very Good	Excellent	Poor	Fair	Very Good	Fair	Good	Good
<b>OVERLAPPING SHEAR STRENGTH</b>	High	High	Low	High	Low	Medium	Medium	High	High
<b>PEEL STRENGTH</b>	Low <sup>3</sup>	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium
<b>TENSILE STRENGTH</b>	High	High	Low	High	Medium	Medium	Medium	High	High
<b>ELONGATION/FLEXIBILITY</b>	Low	Low	High	Medium	High	High	High	Medium	Medium
<b>HARDNESS</b>	Rigid	Rigid	Semisoft	Semirigid	Soft	Soft	Soft	Semirigid	Semirigid
PROCESS CONSIDERATIONS	ADHESIVE CATEGORY								
	CYANOACRYLATES	EPOXIES	HOT MELTS	LIGHT CURE	SILICONES	ELASTOMERS	URETHANES	2-PART ACRYLICS	2-STEP ACRYLICS
<b>NUMBER OF COMPONENTS</b>	1 or 2	2	1	1	1 or 2	1 or 2	1 or 2	2	2
<b>CURE TEMPERATURE</b>	Room Temperature	Room Temperature	Room Temperature <sup>4</sup>	UV/Visible	Room Temperature	Room Temperature	Room Temperature	Room Temperature	Room Temperature
<b>FIXTURE TIME</b>									
Average	30 seconds	20 minutes	70 seconds	30 seconds	25 minutes	25 minutes	25 minutes	20 minutes	5 minutes
Fastest	<5 seconds	3 to 5 minutes	20 seconds	<5 seconds	2 minutes	10 minutes	5 minutes	3 to 5 minutes	30 seconds
<b>FULL CURE TIME</b>	24 hours	12 to 24 hours	1 hour (or when cooled) <sup>5</sup>	30 to 60 seconds	1 to 7 days	1 to 7 days	24 hours	24 hours	24 hours
<b>GAP FILL</b>									
Ideal (in inches)	0.001 to 0.010	0.004 to 0.006	0.002 to 0.005	0.002 to 0.010	0.001 to 0.006	0.001 to 0.006	0.004 to 0.006	0.010 to 0.040	0.002 to 0.004
Maximum (in inches)	0.200	0.125	0.240	0.25	0.25	0.24	0.125	0.5	0.040
<b>DISPENSING/MIXING EQUIPMENT REQUIRED</b>	NO	YES	YES	NO	NO	NO	YES	YES	NO
<b>LIGHT CURE VERSIONS AVAILABLE</b>	YES	YES	NO	YES	YES	NO	NO	NO	YES

<sup>1</sup> Cyanoacrylates have very good moisture resistance on plastics.

<sup>2</sup> Uncured liquid adhesives may cause stress cracking of certain thermoplastics, e.g., polycarbonate, acrylic and polysulfone. Special products and process techniques are available. Consult the LOCTITE® Design Guide to Bonding Plastics (LT-2197) or contact 1-800-LOCTITE (562-8483) for more information.

<sup>3</sup> Exception: Toughened cyanoacrylates have HIGH peel strength.

<sup>4</sup> Elevated temperatures are required to dispense liquid Hot Melt Adhesives.

<sup>5</sup> Urethane Hot Melts require 24 hours for full cure.

**PLEASE NOTE:** This chart should not be used to specify products without specific testing. It is recommended that you conduct on-part testing to ensure product performance before specifying any adhesive.

## FREE BONDING GUIDES

LOCTITE® Design Guides help you select the proper LOCTITE® adhesive for bonding Metals, Plastics, Rubbers and Thermoplastic Elastomers. Visit [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite) and click on **Literature**, then select **Bonding** to view the guides or request copies.



**ADDITIONAL RESOURCES**

# Cyanoacrylate Adhesives

- One-component, no-mix products that cure rapidly at room temperature without heat or light – exceptionally easy to use
- Excellent bond strengths to the widest range of plastics, rubbers and metals
- Widest selection of products, including specialty grades suitable for applications where impact resistance, flexibility, gap filling, low odor or extremely fast curing is required



7

Instant Bonding

## Your Application

### WHAT TYPE OF MATERIAL ARE YOU BONDING?

Low Surface Energy Plastics (PP, PE, Acetal, PTFE, etc.)

All Other Materials (Except Glass)

Highly Flexible CA (for flexing bond lines)

Premium/Surface Insensitive CAs (Bond very well to most materials)

Low Odor/Low Bloom CAs (For cosmetic & odor sensitive applications)

Use Primer with Premium CAs

Low Viscosity

Low Viscosity

Non-Sag Gel

Medium Viscosity

Non-Sag Gel

## Solution

SF 770™

4902™

401™

454™

403™

455™

	SF 770™	4902™	401™	454™	403™	455™
<b>Color</b>	Clear	Clear	Clear	Clear	Clear/Light Straw	Clear/Light Straw
<b>Gap Fill (in.)</b>	N/A	0.005	0.005	0.01	0.008	0.01
<b>Viscosity (cP)</b>	1.25	200	90	Gel	1,200	Gel
<b>Shear Strength* (psi)</b>	N/A	1,745	2,900	3,030	2,940	1,405
<b>Temperature Range</b>	N/A	-65°F (-54°C) to 180°F (82°C)	-65°F (-54°C) to 250°F (121°C)	-65°F (-54°C) to 250°F (121°C)	-65°F (-54°C) to 212°F (100°C)	-65°F (-54°C) to 212°F (100°C)
<b>Fix Time (sec.)</b>	N/A	20	5	15	20	60

## Product Description

### LOCTITE® SF 770™ Primer

A heptane-based adhesion promoter formulated for use with polyolefins and other low surface energy plastics. Use with LOCTITE® Premium Surface Insensitive CAs. Fast dry time and good on part life.

P/N	Package Size
18396	1.75 fl. oz. bottle
18397	16 fl. oz. can

### LOCTITE® 4902™ Instant Adhesive

Highly flexible CA with elongations over 100%, designed for highly flexing bond lines.

P/N	Package Size
1875841	20 g bottle
1875842	1 lb. bottle

### LOCTITE® 401™ Instant Adhesive

Low viscosity surface insensitive CA provides excellent bond strengths to most materials including plastics, elastomers, metals and platings. Excellent for dry or acidic conditions.

P/N	Package Size
40104	3 g tube
40140	20 g bottle
40161	1 lb. bottle

### LOCTITE® 454™ Instant Adhesive

Surface insensitive CA providing excellent bond strengths to many materials including plastics, elastomers, metals and platings. Excellent for dry or acidic conditions. Non sag gel prevents drips.

P/N	Package Size
45404	3 g tube
21925	10 g syringe
45440	20 g tube
1337712	30 g syringe
45474	200 g tube
45478	300 g cartridge
231962	850 g cartridge

### LOCTITE® 403™ Instant Adhesive

Low odor, low blooming CA well suited for cosmetic applications or where vapor ventilation is difficult. Surface insensitive, providing excellent bond strengths to most materials.

P/N	Package Size
40340	20 g bottle
40361	1 lb. bottle

### LOCTITE® 455™ Instant Adhesive

Low odor, low blooming CA well suited for cosmetic applications or where vapor ventilation is difficult. Surface insensitive, providing excellent bond strengths to most materials. Non sag gel prevents drips.

P/N	Package Size
22309	10 g syringe
17421	200 g tube
23588	850 g cartridge

#### ADDITIONAL PRODUCT AVAILABLE

SF 7951™	Non-flammable Primer
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#### ADDITIONAL PRODUCT AVAILABLE

4903™	Increased modulus
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#### ADDITIONAL PRODUCT AVAILABLE

431™	Medium viscosity
406™	Wicking viscosity

#### ADDITIONAL PRODUCTS AVAILABLE

408™	Wicking viscosity
460™	Low viscosity

\* Grit-blasted steel.

\*\* Polycarbonate to polycarbonate.

† Full cure = 24 hours

without UV exposure.

‡ At 0.002 in. gap.

§ At 0.200 in. gap.





Light Cure CAs – Rapid Cure (Provide extremely fast cure speeds)		Toughened/Impact Resistant CAs (For applications with vibration & shock)		2-Part CA (For high gap applications)	Rubber Bonding CA	CA Accelerators (Speeds cure of exposed CAs)
Low Viscosity	Medium Viscosity	1-Part	2-Part	Non-Sag Gel	Low Viscosity	Use Accelerator with Premium CAs
<b>4310™</b>	<b>4311™</b>	<b>435™</b>	<b>HY 4090™</b>	<b>3092™</b>	<b>404®</b>	<b>SF 7452™</b>
Clear/Pale Green	Clear/Pale Green	Clear	Clear/Light Yellow	Clear	Clear	Clear/Amber
0.004	0.008	0.006	0.2	0.2	0.005	N/A
175	1,050	175	Gel	Gel	80	0.4
3,190**	3,760**	2,700	2,400	3,200	3,500	N/A
-65°F (-54°C) to 200°F (93°C)	-65°F (-54°C) to 200°F (93°C)	-65°F (-54°C) to 225°F (107°C)	-40°F (-40°C) to 300°F (150°C)	-4°F (-20°C) to 176°F (80°C)	-65°F (-54°C) to 180°F (82°C)	N/A
<5†	<5†	30	90	15 sec.‡ 3.5 min.‡	30	N/A

#### LOCTITE® 4310™ Light Cure Adhesive

Light cure CA cures where light reaches and also in shadowed areas via surface moisture. Toughened, fluorescent adhesive that cures tack-free in 2-5 seconds. Lower viscosity for tighter bond lines.

P/N	Package Size
1401792	1 oz. bottle
1401790	1 lb. bottle

#### LOCTITE® 4311™ Light Cure Adhesive

Light cure CA cures where light reaches and also in shadowed areas via surface moisture. Toughened, fluorescent adhesive that cures tack-free in 2-5 seconds. Higher viscosity to minimize dripping.

P/N	Package Size
1401791	1 oz. bottle
1401789	1 lb. bottle

#### LOCTITE® 435™ Instant Adhesive

Low viscosity toughened CA with increased flexibility, peel strength and resistance to shock. Surface insensitive, providing excellent bond strengths to most materials. **CFIA Listed.**

P/N	Package Size
40994	20 g bottle
40995	1 lb. bottle

#### LOCTITE® HY 4090™ Structural Instant Adhesive

This innovative hybrid adhesive combines the bond strength and speed needed to solve your design and assembly challenges. With the speed of an instant adhesive and the strength of a structural adhesive, LOCTITE® HY 4090™ delivers both performance and versatility.

P/N	Package Size
1915601	50 ml syringe

#### LOCTITE® 3092™ Instant Adhesive

Fast two-part CA bonds gaps up to 0.2 in. (2 mm). Particularly suited for bonding plastics, rubbers, wood, paper and metals. High precision dispensing tips.

P/N	Package Size
1807961	10 g syringe with 3 mix nozzles

#### LOCTITE® 404® Instant Adhesive

Excellent for bonding rubbers where very fast fixturing is required. For general maintenance and repair.

P/N	Package Size
46551	1/3 oz. bottle
46548	4 oz. bottle
46561	1 lb. bottle

#### LOCTITE® SF 7452™ Accelerator

Used where increased cure speed of LOCTITE® CAs is required. Can either be pre- or post-applied.

P/N	Package Size
18490	1.75 fl. oz. brush-top bottle
18580	1.75 fl. oz. spray-cap bottle
18637	0.7 fl. oz. metered mist
18575	1 quart can
18576	1 gallon can

#### ADDITIONAL PRODUCTS AVAILABLE

4306™	Wicking viscosity
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#### LOCTITE® HY 4090™ opens the door to new applications and new solutions. These are just some of the benefits of LOCTITE® HY 4090™.

- Strong – strength of a structural adhesive
- Fast – speed of an instant adhesive
- High impact and vibration resistance – 3x more than instant adhesives
- Temperature resistance to 300°F
- Fills gaps up to 0.2"
- Bonds multiple substrates – metals, plastics, rubbers, etc.

#### ADDITIONAL PRODUCTS AVAILABLE

SF 7113™ Accelerator	Longer on part life
382™	Instant Adhesive

# Cyanoacrylate Adhesives

## Loctite® Cyanoacrylate Adhesive Properties Chart

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	TYPICAL USE	COLOR	GAP FILL (INCHES)	CATEGORY	VISCOSITY (cP)	SHEAR STRENGTH* (psi)	TEMPERATURE RANGE	CURE SPEED**	SPECIFIC GRAVITY	AGENCY APPROVALS
GENERAL-PURPOSE SURFACE INSENSITIVE	401™	40104 40140 40161	3 g tube 20 g bottle 1 lb. bottle	General-purpose	Clear	0.005	Ethyl	90	2,900	-65°F (-54°C) to 250°F (121°C)	Fixture – 5 sec. Full – 24 hrs.	1.05	CFIA Listed
	406™	40604 40640 40661	3 g tube 20 g bottle 1 lb. bottle	Wicking grade	Clear	0.004	Ethyl	20	2,250	-65°F (-54°C) to 250°F (121°C)	Fixture – 10 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	431™	41254 41255 41256	3 g tube 20 g bottle 1 lb. bottle	Gap filling	Clear	0.008	Ethyl	900	2,300	-65°F (-54°C) to 180°F (82°C)	Fixture – 15 sec. Full – 24 hrs.	1.10	ISO 10993
	454™	45404 21925 45440 1337712 45474 45478 231962	3 g tube 10 g syringe 20 g tube 30 g syringe 200 g tube 300 g cartridge 850 g cartridge	Porous surfaces	Clear	0.010	Ethyl	Gel	3,030	-65°F (-54°C) to 250°F (121°C)	Fixture – 15 sec. Full – 24 hrs.	1.05	CFIA, ABS, Commercial item std. A-A-3097
LOW ODOR / LOW BLOOM SURFACE INSENSITIVE	455™	22309 17421 23588	10 g syringe 200 g tube 850 g cartridge	Porous surfaces	Clear/Light Straw	0.010	Alkoxy	Gel	1,405	-65°F (-54°C) to 212°F (100°C)	Fixture – 60 sec. Full – 24 hrs.	1.10	N/A
	403™	40340 40361	20 g bottle 1 lb. bottle	Gap filling	Clear/Light Straw	0.008	Alkoxy	1,200	2,940	-65°F (-54°C) to 212°F (100°C)	Fixture – 20 sec. Full – 24 hrs.	1.10	N/A
	408™	40840 40861	20 g bottle 1 lb. bottle	Wicking grade	Clear/Light Straw	0.002	Alkoxy	5	3,020	-65°F (-54°C) to 212°F (100°C)	Fixture – 20 sec. Full – 24 hrs.	1.05	N/A
	460™	46040 46061	20 g bottle 1 lb. bottle	Close-fitting parts	Clear/Light Straw	0.004	Alkoxy	45	3,060	-65°F (-54°C) to 212°F (100°C)	Fixture – 15 sec. Full – 24 hrs.	1.10	N/A
LIGHT CURE TOUGHENED	4306™	37439 37442	1 oz. bottle 1 lb. bottle	Close-fitting parts	Clear/Pale Green	0.004	Ethyl	20	2,000 <sup>‡</sup>	-65°F (-54°C) to 180°F (82°C)	Fixture <5 sec. <sup>‡</sup>	1.10	ISO 10993
	4310™	1401792 1401790	1 oz. bottle 1 lb. bottle	Close-fitting parts	Clear/Pale Green	0.005	Ethyl	175	3,190 <sup>‡</sup>	-65°F (-54°C) to 240°F (116°C)	Fixture <5 sec. <sup>‡</sup>	1.05	ISO 10993
	4311™	1401791 1401789	1 oz. bottle 1 lb. bottle	Gap filling	Clear/Pale Green	0.008	Ethyl	1,050	3,260 <sup>‡</sup>	-65°F (-54°C) to 200°F (93°C)	Fixture <5 sec. <sup>‡</sup>	1.15	ISO 10993
FLEXIBLE	4902™	1875841 1875842	20 g bottle 1 lb. bottle	Flexing bond lines	Clear	0.004	Ethyl	200	1,745	-65°F (-54°C) to 180°F (82°C)	Fixture – 15 sec. Full – 24 hrs.	1	ISO 10993
	4903™	1875847	20 g bottle	Flexing bond lines, Increased modulus	Clear	0.004	CA/ Epoxy Hybrid	200	1,670	-65°F (-54°C) to 180°F (82°C)	Fixture – 15 sec. Full – 24 hrs.	1	ISO 10993
TOUGHENED	HY 4090™	1915601	50 g dual cartridge	General-purpose	Clear/Light Yellow	0.2	Ethyl	Gel	2,400	-40°F (-40°C) to 300°F (148°C)	Fixture – No Gap 60 to 90 sec. Fixture – Gap 3 to 5 min. Full – 7 days	Part A – 1.01 Part B – 1.06	N/A
	380™	38004 38050 38061	3 g tube 1 oz. bottle 1 lb. bottle	Close-fitting parts	Black	0.006	Ethyl	300	3,750	-65°F (-54°C) to 225°F (107°C)	Fixture – 90 sec. Full – 24 hrs.	1.10	CFIA Listed
	410™	41004 41045 41061	3 g tube 20 g bottle 1 lb. bottle	Gap filling	Black	0.008	Ethyl	3,500	3,200	-65°F (-54°C) to 225°F (107°C)	Fixture – 90 sec. Full – 24 hrs.	1.07	CFIA Listed
	426™	21921 18398 17529	10 g syringe 20 g tube 300 g cartridge	Porous surfaces	Black	0.010	Ethyl	Gel	3,000	-65°F (-54°C) to 210°F (99°C)	Fixture – 20 sec. Full – 24 hrs.	1.10	N/A
	480™	48040 48061	20 g bottle 1 lb. bottle	Close-fitting parts	Black	0.006	Ethyl	200	3,800	-65°F (-54°C) to 180°F (82°C)	Fixture – 90 sec. Full – 24 hrs.	1.10	N/A
	411™	41104 41145 41161	3 g tube 20 g bottle 1 lb. bottle	Gap filling	Clear	0.008	Ethyl	5,000	3,200	-65°F (-54°C) to 210°F (99°C)	Fixture – 30 sec. Full – 24 hrs.	1.07	N/A
	435™	40994 40995	20 g bottle 1 lb. bottle	General-purpose	Clear	0.006	Ethyl	175	2,700	-65°F (-54°C) to 225°F (107°C)	Fixture – 30 sec. Full – 24 hrs.	1.10	ISO 10993 CFIA Listed
	438™	40997	20 g bottle	General-purpose	Black	0.006	Ethyl	200	2,800	-65°F (-54°C) to 225°F (107°C)	Fixture – 30 sec. Full – 24 hrs.	1.10	N/A
2-PART GAP FILL	3092™	1807961	10 g syringe with 3 mix nozzles	High gap filling plastic bonder	Clear	0.2	Ethyl	Gel	3,200	-4°F (-20°C) to 176°F (80°C)	Fixture 0.002" gap – 15 sec. 0.200" gap – 3.5 min. Full – 24 hrs.	1.05	N/A

ITEMS IN RED = Source's PICK or NEW

☉ = Indicates Worldwide Availability

\*\* Varies with substrates.  
‡ Data generated using polycarbonate.

‡ Full Cure = 24 hours without UV exposure. (With UV exposure, see Technical Data Sheets.)  
† Contains LOCTITE® 382™ Instant Adhesive (20 g bottle), LOCTITE® 7452™ Accelerator (0.7 oz. net wt. aerosol can).  
‡ Contains LOCTITE® 444™ Instant Adhesive (20 g bottle), LOCTITE® 7452™ Accelerator (1.75 fl. oz. liquid brush-top bottle).

## Loctite® Cyanoacrylate Adhesive Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	TYPICAL USE	COLOR	GAP FILL (INCHES)	CATEGORY	VISCOSITY (cP)	SHEAR STRENGTH* (psi)	TEMPERATURE RANGE	CURE SPEED**	SPECIFIC GRAVITY	AGENCY APPROVALS
TOUGHENED THERMALLY RESISTANT	4203™	1376970 28027	20 g bottle 1 lb. bottle	Close-fitting parts	Clear	0.005	Ethyl	375	2,200	-65°F (-54°C) to 250°F (121°C)	Fixture – 40 sec. Full – 24 hrs.	1.10	N/A
	4204™	1376969 26325	20 g bottle 1 lb. bottle	Gap filling	Clear	0.008	Ethyl	4,000	2,400	-65°F (-54°C) to 250°F (121°C)	Fixture – 75 sec. Full – 24 hrs.	1.10	N/A
	4205™	28028 28029	20 g tube 200 g tube	Porous surfaces	Clear	0.010	Ethyl	Gel	2,300	-65°F (-54°C) to 250°F (121°C)	Fixture – 90 sec. Full – 24 hrs.	1.10	N/A
GENERAL-PURPOSE	382™	20420 38240 38261	20 g kit/ 20 g bottle 1 lb. bottle	Gap filling and ultra-performance wire tracking	Clear	0.008	Ethyl	5,000	3,200	-65°F (-54°C) to 210°F (99°C)	Fixture – 30 sec. Full – 24 hrs.	1.05	N/A
	404®	46551 46548 46561	1/3 oz. bottle 4 oz. bottle 1 lb. bottle	Rubber O-ring bonder	Clear	0.005	Ethyl	80	3,500	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.09	ABS, CFIA Listed, Commercial item std. A-A-3097
	409™	40904 40945 40974 18030	3 g tube 20 g tube 200 g tube 300 g cartridge	General-purpose gel	Clear	0.010	Ethyl	Gel	3,200	-65°F (-54°C) to 180°F (82°C)	Fixture – 75 sec. Full – 24 hrs.	1.10	N/A
	414™	41404 41450 41461	3 g tube 1 oz. bottle 1 lb. bottle	Plastic bonder	Clear	0.006	Ethyl	110	3,200	-65°F (-54°C) to 180°F (82°C)	Fixture – 20 sec. Full – 24 hrs.	1.05	CFIA Listed, Commercial item std. A-A-3097
	415™	41550 41561	1 oz. bottle 1 lb. bottle	Gap filling metal bonder	Clear	0.008	Methyl	1,500	3,600	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.09	Commercial item std. A-A-3097
	416™	41650 41661	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	0.008	Ethyl	1,500	3,200	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.05	CFIA Listed, Commercial item std. A-A-3097
	420™	42050 42061	1 oz. bottle 1 lb. bottle	Wicking type plastic bonder	Clear	0.002	Ethyl	2	2,900	-65°F (-54°C) to 180°F (82°C)	Fixture – 20 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	422™	42250 42261	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	0.008	Ethyl	2,500	3,200	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.09	CFIA Listed, Commercial item std. A-A-3097
	430™	43004 43050 43061	3 g tube 1 oz. bottle 1 lb. bottle	Metal bonder for close-fitting parts	Clear	0.005	Methyl	80	3,600	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.09	Commercial item std. A-A-3097
	444™	12292 20419 12294	20 g bottle 20 g kit# 1 lb. bottle	Wire tacking	Clear	0.007	Ethyl	700	3,200	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	495™	49504 49550 49561	3 g tube 1 oz. bottle 1 lb. bottle	General-purpose	Clear	0.004	Ethyl	45	2,060	-65°F (-54°C) to 250°F (121°C)	Fixture – 5 sec. Full – 24 hrs.	1.05	Commercial item std. A-A-3097
	496™	49650 49661	1 oz. bottle 1 lb. bottle	General-purpose rubber bonder	Clear	0.005	Methyl	125	3,600	-65°F (-54°C) to 180°F (82°C)	Fixture – 30 sec. Full – 24 hrs.	1.09	Commercial item std. A-A-3097
	498™	49850 49861	1 oz. bottle 1 lb. bottle	Thermal cycling	Clear	0.007	Ethyl	500	3,000	-65°F (-54°C) to 180°F (82°C)	Fixture – 50 sec. Full – 24 hrs.	1.10	N/A
	454™	39202	0.14 oz. bottle	General gel	Clear	0.010	Ethyl	Gel	3,200	-65°F (-54°C) to 250°F (121°C)	Fixture – 15 sec. Full – 24 hrs.	1.05	N/A

## Loctite® Primer & Accelerator Properties Chart

	LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS	
SURFACE PREPARATION	ACCELERATORS	SF 712™	20352 18636 18390	1.75 fl. oz. bottle 0.7 fl. oz. metered mist 1 gallon can	Clear/Amber	1	Isopropanol	1 minute	<30 seconds	All cyanoacrylates	MIL-46050C for existing designs, CFIA Listed
		SF 7109™	22440 23034	1.75 fl. oz. bottle 1 quart can	Clear/Amber	3	Perfluorocarbon	1 minute	<5 seconds	All cyanoacrylates	N/A
		SF 7113™	19605 19606 1806199	1.75 fl. oz. bottle 1 gallon can 313 lb. drum	Clear	0.4	Heptane	24 hours	<1 minute	All cyanoacrylates	N/A
		SF 7452™	18490 18580 18637 18575 18576	1.75 fl. oz. brush-top bottle 1.75 fl. oz. spray-cap bottle 0.7 fl. oz. metered mist 1 quart can 1 gallon can	Clear/Amber	0.4	Acetone	1 minute	<30 seconds	All cyanoacrylates	MIL-46050C for existing designs
	PRIMERS	SF 770™	18396 18397	1.75 fl. oz. bottle 16 fl. oz. can	Colorless, Slightly Hazy	1.25	Heptane	8 hours	30 seconds	All cyanoacrylates	CFIA Listed
		SF 7951™	27858	1.75 fl. oz. bottle	Colorless, Slightly Hazy	0.7	Perfluorocarbon and Chlorobenzotrifluoride	8 hours	30 seconds	All cyanoacrylates	N/A





PLEASE NOTE: A complete line of surface primers, accelerators and cleaners is available to further enhance the performance of LOCTITE® Instant Adhesives. Refer to the Surface Cleaning section on page 129.



# Cyanoacrylate Adhesive Equipment






## YOUR EQUIPMENT Source




For more details, see the *Loctite® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).










LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	CONSUMABLES – DISPENSE ACCESSORIES
HANDHELD APPLICATORS	<b>BOTTLE DISPENSING</b>					
	 CA VOLUMETRIC HAND PUMP	1506477	Cyanoacrylates	20 g or 1 fl. oz. bottle	0.009 – 0.002 g	Dispense Tips and Accessories – Pages 174-175
	 SOFT SQUEEZE BOTTLES	98345	All Fluids	2 fl. oz. packages	Low to Medium	
		98346	All Fluids	4 fl. oz. packages		
		98347	All Fluids	8 fl. oz. packages		
<b>SYRINGE DISPENSING</b>						
 10 ML GEL CA SYRINGE DISPENSER	1233800	Any fluid in a 10 ml syringe	10 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175	
 30 ML MANUAL SYRINGE APPLICATOR	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175	





LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	ACTUATION	CONSUMABLES – DISPENSE ACCESSORIES
HANDHELD VALVES	<b>LOW VISCOSITY CYANOACRYLATE APPLICATOR</b>								
	 LV HAND-HELD APPLICATOR	97130	Pneumatic	Low	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Foot	Dispense Tips and Accessories – Pages 174-175
	<b>PINCH TUBE APPLICATORS</b>								
 VARI-DROP™ APPLICATORS	97131	Pinch Tube	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175	
	97132								

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
VALVES	<b>HIGH PRECISION VALVES</b>								
	 STATIONARY APPLICATOR VALVE	97113	High Precision	Low to Medium	Drop, Dot, Bead	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
		97114							
	<b>HIGH PERFORMANCE DIAPHRAGM VALVES</b>								
	 VA10 MICRO DIAPHRAGM VALVE	1611449	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdot	Instant Adhesives	Yes	No	Dispense Tips and Accessories – Pages 174-175
	 VA15 DIAPHRAGM VALVE	1730181	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Silicone and Other Moisture Sensitive Adhesives	Yes	No	
 CYANOACRYLATE DISPENSE VALVE	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No		
	 LIGHT CURE DISPENSE VALVE							98009	Light Cure Adhesives




LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES
CARTRIDGE DISPENSING	<b>PNEUMATIC CARTRIDGE DISPENSING</b>							
	 300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges	Low to Medium	No	Cartridge Accessories – Page 175
	 HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	
 300 ML CARTRIDGE PUSHER	98022	0 to 50 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes		

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
DISPENSE SYSTEMS	<b>VOLUMETRIC BOTTLE DISPENSING</b>								
		BENCHTOP PERISTALTIC DISPENSER	98548	Dot, Drop, Bead	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	Any Bottle	0 to 5,000 cP	Programmable	Dispense Tips and Accessories – Pages 174-175
	<b>COMPLETE PRESSURE-TIME BOTTLE DISPENSE SYSTEM</b>								
		BOND-A-MATIC® 3000 DISPENSER 0-15 psi	982719	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low  Medium to High	N/A	Dispense Tips and Accessories – Pages 174-175
		BOND-A-MATIC® 3000 DISPENSER 0-100 psi	982722						
	<b>SYRINGE DISPENSING SYSTEMS</b>								
		POSI-LINK™ DISPENSE SYSTEM	See Page 171	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Epoxies	Prepackaged 5 ml syringe 10 ml syringe 25 ml syringe	Low to Paste	Yes	Dispense Tips and Accessories – Pages 174-175
		PRECISION SYRINGE DISPENSING SYSTEM	97006*	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics	3 ml syringe 5 ml syringe 10 ml syringe 30 ml syringe 55 ml syringe	Low to Paste	Yes	Syringes – Pages 179-180
		DIGITAL SYRINGE DISPENSING SYSTEM	883976						
		SD10 DIGITAL SYRINGE DISPENSER	1514629						
	FOOT PEDAL DISPENSER	98050*							

\* Syringe Airline Adapter sold separately. Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) for all available accessories.

LOCTITE® PRODUCT		ITEM NUMBER	CONTROLLED OUTPUTS	NUMBER OF DISPENSE VALVES	ADVANCING SLIDE	ROTOSPRAY™	ACCESSORIES
MULTIFUNCTION CONTROLLERS		DUAL CHANNEL AUTOMATIC CONTROLLER	97152	2	2 (Independent)	97119 – 100 mm	97115
		SPRAY VALVE CONTROLLER	1406023	1	1	N/A	N/A
		DIGITAL MULTIFUNCTIONAL CONTROLLER	1022006	3	3 (Independent)	N/A	In conjunction with Positive Displacement Pump – 983330
SINGLE FUNCTION CONTROLLERS		DIGITAL DISPENSE CONTROLLER	97101	1	1	N/A	N/A

Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) for more information on additional accessories.

LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
CONTROLLERS & RESERVOIRS	<b>INTEGRATED RESERVOIR CONTROLLERS</b>								
		INTEGRATED SEMI-AUTOMATIC DISPENSER	1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium  Medium to High	Yes	Dispense Tips and Accessories – Pages 174-175
			1390321	0 to 100 psi					
	<b>RESERVOIRS</b>								
		BOND-A-MATIC® 3000 RESERVOIR	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium  Medium to High	Yes	Dispense Tips and Accessories – Pages 174-175
			982726	0 to 100 psi				No	
			982723					Yes	
			982727	No					
		SHOT MISER™ RESERVOIR	98090	0 to 100 psi	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 200 g squeeze tube	Low to High	No	

Your Source for Motion Control Robot Dispense Systems. See page 169.

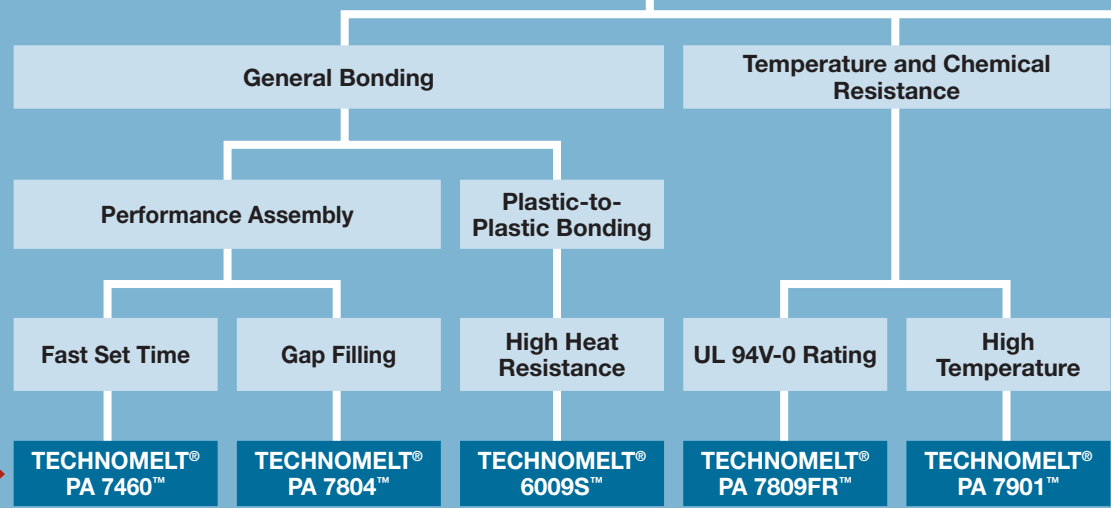
# Hot Melt Adhesives

- Bond a variety of substrates, including difficult-to-bond plastics
- Can handle today's toughest applications in a broad range of industries
- Ideal for applications that require high speed manufacturing, bonding versatility, very large gap filling, fast green strength and minimal shrinkage
- Solvent-free and contain environmentally responsible materials with no harmful VOCs



## Your Application

### WHAT TYPE OF HOT MELT ADHESIVE DO YOU NEED?



## Solution

	TECHNOMELT® PA 7460™	TECHNOMELT® PA 7804™	TECHNOMELT® 6009S™	TECHNOMELT® PA 7809FR™	TECHNOMELT® PA 7901™
<b>Color</b>	Amber	Amber	Natural	Amber	Amber
<b>Viscosity (cP) at Dispense Temp.</b>	6,700	7,500	8,100	7,000	750
<b>Open Time (Sec.)</b>	30	35	25	35	35
<b>Heat Resistance</b>	210°F (99°C)	220°F (104°C)	>310°F (>152°C)	240°F (115°C)	300°F (149°C)
<b>Shore Hardness</b>	N/A	A 74	N/A	A 85	A 84

## Product Description

**TECHNOMELT® PA 7460™**  
Hot Melt Adhesive  
*Sprayable*

Formulated for spray applications. High heat resistance and fast set time. Suitable for bonding foams, fabric and wood.

**P/N Package Size**  
83308 Polyshot 25 lb. pail

**TECHNOMELT® PA 7804™**  
Hot Melt Adhesive  
*Impact Resistant*

Tough, elastomeric, high performance adhesive with excellent impact resistance at low temperatures.

**P/N Package Size**  
1863185 32 lb. carton pellets  
83328 Superstick (10 in.) 32 lb. carton  
83330 Polyshot 25 lb. pail

**TECHNOMELT® 6009S™**  
Hot Melt Adhesive  
*Heat Resistant*

Low viscosity, high heat-resistant adhesive recommended for bonding polypropylene to itself and to various porous substrates.

**P/N Package Size**  
83372 40 lb. carton pellets

**TECHNOMELT® PA 7809FR™**  
Hot Melt Adhesive  
*Fire Retardant*

Modified with fire retardant materials. It has a UL 94V-0 flammability rating.

**P/N Package Size**  
83675 Superstick (10 in.) 32 lb. carton  
83676 Polyshot 25 lb. pail

**TECHNOMELT® PA 7901™**  
Hot Melt Adhesive  
*Potting*

Low viscosity polyamide used extensively for potting and encapsulating.

**P/N Package Size**  
83342 40 lb. carton pellets



Porous Substrates						Structural Bonding
Foam Bonding		General Assembly		Packaging Applications		
Medium Open Time	Extended Open Time	General-Purpose	Medium Open Time	Fast Setting	High Strength	
<b>TECHNOMELT® 0430™</b>	<b>TECHNOMELT® 0450™</b>	<b>TECHNOMELT® 1942™</b>	<b>TECHNOMELT® 232™</b>	<b>TECHNOMELT® 1X™</b>	<b>TECHNOMELT® 740™</b>	<b>TECHNOMELT® PUR™ 3631™</b>
Cream	Natural	Tan	Clear	Yellow	Yellow	Off-White
6,000	4,500	5,000	11,000	2,000	9,000	12,000
3.5 min. Sprayed	5 to 8 min.	30	15	15	10	60
170°F (77°C)	170°F (77°C)	142°F (61°C)	153°F (67°C)	150°F (65°C)	168°F (75°C)	250°F (121°C)
A 75	A 75	N/A	N/A	N/A	N/A	N/A

**TECHNOMELT® 0430™**  
Hot Melt Adhesive  
*Medium Open Time*

Suitable for bonding expanded polystyrene, polyethylene and urethane foams. Can be used in applications where solvent-based aerosols are used.

P/N	Package Size
83349	Polyshot 35 lb. carton

**TECHNOMELT® 0450™**  
Hot Melt Adhesive  
*Extended Open Time*

Formulated for spray applications, this adhesive is well-suited for use on expanded polystyrene or urethane foams.

P/N	Package Size
83354	Polyshot 35 lb. carton
83356	Polyshot 35 lb. carton (RED)

**TECHNOMELT® 1942™**  
Hot Melt Adhesive  
*General-Purpose*

Medium setting, general-purpose hot melt adhesive. Excellent adhesion to wood and many plastics.

P/N	Package Size
83267	40 lb. carton pellets
83269	Maxistick 35 lb. carton
83274	Superstick (10 in.) 25 lb. carton
83277	Polyshot 35 lb. carton

**TECHNOMELT® 232™**  
Hot Melt Adhesive  
*Medium Open Time*

A medium setting adhesive with an open time of 15 seconds.

P/N	Package Size
83239	40 lb. carton pellets
83245	Superstick (10 in.) 25 lb. carton
83247	Polyshot 35 lb. carton

**TECHNOMELT® 1X™**  
Hot Melt Adhesive  
*Fast Setting*

Medium to fast setting; recommended for bonding paper, wood, fabric and foam.

P/N	Package Size
83358	40 lb. carton pellets
83360	Maxistick 35 lb. carton
83365	Superstick (10 in.) 25 lb. carton
83368	Polyshot 35 lb. carton

**TECHNOMELT® 740™**  
Hot Melt Adhesive  
*High Strength*

Fast setting adhesive recommended for packaging applications.

P/N	Package Size
83264	Polyshot 35 lb. carton

**TECHNOMELT® PUR™ 3631™**  
Hot Melt Adhesive  
*High Strength*

A toughened, high strength adhesive for use on plastics. Flexible bond with an open time of 60 seconds.

P/N	Package Size
31291	300 ml cartridge
31279	5 gallon pail

# Hot Melt Adhesives



## Loctite® Hot Melt Adhesive Properties Chart

	<b>LOCTITE® PRODUCT</b>	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	ATTRIBUTES	VISCOSITY (cP) AT DISPENSE TEMPERATURE	TENSILE STRENGTH (psi)	OPEN TIME	TEMPERATURE RESISTANCE	% ELONGATION	SHORE HARDNESS	AGENCY APPROVALS
<b>POLYOLEFIN-BASED</b>	<b>TECHNOMELT® 0430™</b>	83349	Polyshot 35 lb. carton	Cream	Medium open time	5,000	280	3.5 minutes sprayed	170°F (77°C)	N/A	A 75	N/A
	<b>TECHNOMELT® 0450™</b>	83354 83356	Polyshot 35 lb. carton Polyshot 35 lb. carton (RED)	Natural	Extended open time	4,500	N/A	5 to 8 minutes	156°F (69°C)	N/A	N/A	N/A
	<b>TECHNOMELT® 6009S™</b>	83372	40 lb. carton pellets	Natural	Fast set	8,100	210	25 seconds	300°F (149°C)	50	N/A	N/A
<b>URETHANE-BASED</b>	<b>TECHNOMELT® PUR™ 3631™</b>	31291 31279	300 ml cartridge 5 gallon pail	Off-White	High strength	12,000	1,800	60 seconds	250°F (121°C)	940	A 91	N/A
	<b>TECHNOMELT® PA 7460™</b>	83308	Polyshot 25 lb. pail	Pale Amber	Sprayable	6,700	N/A	30 seconds	210°F (99°C)	N/A	N/A	N/A
<b>POLYAMIDE-BASED</b>	<b>TECHNOMELT® PA 7802™</b>	83316 83319 83321	40 lb. carton pellets Superstick (10 in.) 32 lb. carton Polyshot 25 lb. pail	Amber	PVC bonder	14,000	600	20 seconds	240°F (115°C)	450	N/A	N/A
	<b>TECHNOMELT® PA 7804™</b>	1863185 83328 83330	32 lb. carton pellets Superstick (10 in.) 32 lb. carton Polyshot 25 lb. pail	Amber	High viscosity	7,500	340	35 seconds	220°F (104°C)	900	A 74	N/A
	<b>TECHNOMELT® PA 7805™</b>	1863184	32 lb. carton pellets	Amber	Flexible	7,500	340	35 seconds	220°F (104°C)	800	A 70	N/A
	<b>TECHNOMELT® PA 7809FR™</b>	83675 83676	Superstick (10 in.) 32 lb. carton Polyshot 25 lb. pail	Amber	Fire retardant	7,000	363	35 seconds	240°F (115°C)	373	A 85	UL 94V-0
	<b>TECHNOMELT® PA 7901™</b>	83342	40 lb. carton pellets	Amber	Potting	750	260	35 seconds	300°F (149°C)	80	A 84	N/A

ITEMS IN RED = Source's PICK or NEW



## Loctite® Hot Melt Adhesive Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	ATTRIBUTES	VISCOSITY (cP) AT DISPENSE TEMPERATURE	TENSILE STRENGTH (psi)	OPEN TIME (SECONDS)	TEMPERATURE RESISTANCE	% ELONGATION	SHORE HARDNESS	AGENCY APPROVALS	
EVA-BASED	TECHNOMELT® 1X™	83358 83360 83365 83368	40 lb. carton pellets Maxistick 35 lb. carton Superstick (10 in.) 25 lb. carton Polyshot 35 lb. carton	Light Yellow	Fast setting	2,000	370	15	150°F (65°C)	90	N/A	N/A
	TECHNOMELT® 232™	83239 83245 83247	40 lb. carton pellets Superstick (10 in.) 25 lb. carton Polyshot 35 lb. carton	Clear	Medium open time	11,000	N/A	15	153°F (67°C)	N/A	N/A	N/A
	TECHNOMELT® 236™	83248	Superstick (10 in.) 35 lb. carton	Clear	Medium viscosity	8,500	213	25	140°F (60°C)	450	N/A	N/A
	TECHNOMELT® 740™	83264	Polyshot 35 lb. carton	Light Yellow	High strength	9,000	750	10	168°F (75°C)	75	N/A	N/A
	TECHNOMELT® 740LV™	83374	Polyshot 35 lb. carton	Light Yellow	High temperature	3,500	700	10	155°F (68°C)	80	N/A	N/A
	TECHNOMELT® 1942™	83267 83269 83274 83277	40 lb. carton pellets Maxistick 35 lb. carton Superstick (10 in.) 25 lb. carton Polyshot 35 lb. carton	Tan	General-purpose	5,000	250	30	142°F (61°C)	500	N/A	N/A
	TECHNOMELT® 4046™	83279	Polyshot 35 lb. carton	Tan	Extended open time	19,000	120	60	120°F (48°C)	1,400	A 22	N/A
	TECHNOMELT® COOLMELT™	83394	CoolMelt™ Maxistick 35 lb. carton	Off- White	Low temperature application	7,200	195	15	140°F (60°C)	800	N/A	N/A
	TECHNOMELT® QUIKPAC™	83398 83400	Maxistick 35 lb. carton Polyshot 35 lb. carton	Light Yellow	Low viscosity	4,645	N/A	15	174°F (79°C)	N/A	N/A	N/A

ITEMS IN RED = Source's PICK or NEW

## Loctite® Hot Melt Stick Chart








DESCRIPTION	DIAMETER	LENGTH	LOCTITE® APPLICATORS BY ITEM NUMBER
SUPERSTICK	0.50 in.	4 in./10 in.	916282, 1597635
MAXISTICK	0.75 in.	2.4 in.	98033, 98034
POLYSHOT	1.75 in.	1.5 in.	98035, 98036, 98040, 98037, 98041

# Hot Melt Adhesive Equipment

## YOUR EQUIPMENT Source

For more details, see the *Loctite® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).


















LOCTITE® PRODUCT		ITEM NUMBER	STICK DIAMETER	DISPENSE MELT RATE	DISPENSE POWER	DISPENSE TEMPERATURE	HOT MELT CHEMISTRY	HOT MELT NOZZLES & ACCESSORIES
<b>1/2 INCH SUPERSTICK DISPENSERS</b>								
	HYSOL® 050A	916282	1/2 in. Superstick Sticks	4 lbs./hr.	Manual	383°F (195°C)	EVA/Polyolefin	Hot Melt Nozzles and Accessories – Page 18
	HYSOL® 050A-HT	1597635	1/2 in. Superstick Sticks	4 lbs./hr.	Manual	419°F (215°C)	Polyamide	
<b>3/4 INCH MAXISTICK DISPENSERS</b>								
	HYSOL® 075	98033	3/4 in. Maxistick Sticks	9 lbs./hr.	Manual	360°F (182°C)	EVA	Hot Melt Nozzles and Accessories – Page 18
	HYSOL® 075-LT	98034	3/4 in. Maxistick Sticks	5 lbs./hr.	Manual	249°F (121°C)	CoolMelt™	
<b>1 3/4 INCH SPRAYPAC™ &amp; POLYSHOT DISPENSERS</b>								
	HYSOL® 175-AIR	98036	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	383°F (195°C)	EVA/Polyolefin	Hot Melt Nozzles and Accessories – Page 18
	HYSOL® 175-AIR-HT	98040	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	419°F (215°C)	Polyamide	
	HYSOL® 175-SPRAY	98037	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	383°F (195°C)	EVA/Polyolefin	
	HYSOL® 175-SPRAY-HT	98041	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	419°F (215°C)	Polyamide	
	EQ HM22	2040430	1 3/4 in. Polyshot Sticks	8.25 lbs./hr.	Manual	383°F (195°C), 419°F (215°C)*, and 320°F (160°C)	EVA/Polyolefin and Polyamide	
<b>URETHANE DISPENSER</b>								
	EQ HM18 REACTIVE URETHANE CARTRIDGE DISPENSER	2011543	N/A	3 lbs./hr.	Air	249°F (121°C)	Reactive Urethane	Hot Melt Nozzles and Accessories – Page 18

\* The LOCTITE® Hysol® 175 Dispenser (manual electric) is supplied with both temperature modules.

For custom hot melt dispense nozzles, contact the Special Equipment Group of Henkel at 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*

LOCTITE® PRODUCT	ITEM NUMBER	DESCRIPTION	USED WITH
	2049853	Nozzle with Adapter/Check Valve	2040430
	1611450	Replacement Nozzle/Check Valve	1597635
	419115 <i>(SINGLE PACK)</i>	Adapter/Check Valves for Nozzles	98035, 98036, 98040
	916050 <i>(5 PACK)</i>		916282
	2049855 <i>(SINGLE PACK)</i>		2040430
	ANZ023N01	Standard Nozzle Adapter with Check Valve and Jam Nut	98033, 98034
	985225 <i>(5 PACK)</i>	1-Hole Nozzle 0.08" diameter cone tip (5 pack)	98033, 98034, 98035, 98036, 98040
	2049852	1-Hole Nozzle 0.138" (5 pack)	2040430
	985110	2-Hole Nozzle 0.06" diameter x 0.39" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985111	3-Hole Nozzle 0.06" diameter x 0.20" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985112	Diagonal Extension Nozzle Tip = 0.14" diameter x 1.23" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985113	Needle Extension Nozzle Tip = 0.05" diameter x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985114	Spreader Extension Nozzle Tip = (0.09" x 0.25") x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985115	L-Nozzle 0.06" diameter x 0.85" offset	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985122	Standard Medium Spray Nozzle 1.25" to 5" diameter pattern	98037, 98041
	985211	Narrow Spray Nozzle 0.05" to 1.25" diameter pattern	98037, 98041
	985216	Ultra-Wide Spray Nozzle 1.5" to 6.0" diameter pattern	98037, 98041
	984261	Standard Adapter for 300 ml Cartridges	98011 2011543
	984262	Standard 1-Hole Nozzle 0.098" diameter cone tip, with integral check valve (includes protective cap)	98011 2011543
	984263	Adapter/Check Valve for Specialty Nozzles	98011 2011543
	984264	Needle Jet Nozzle Tip = 0.051" diameter x 1.26" long (requires 984263 adapter)	98011 2011543
	984268	3-Hole Nozzle 0.06" diameter x 0.20" spacing (requires 984263 adapter)	98011 2011543
	984272	Injection Needle Nozzle with Integral Check Valve Tip = 0.059" diameter x 0.197" long	98011 2011543
	985397	Air Line Filter, Regulator, 5 Micron Filter Gauge 0 to 150 psi	All Pneumatic Applicators

HOT MELT NOZZLES & ACCESSORIES

# Light Cure Adhesives

- One-component, no-mix products that cure extremely fast for immediate QC in high volume assembly operations
- Excellent bond strengths to plastics and glass
- Bond-on-demand capability for unlimited repositioning
- Dual cure formulations for curing where light cannot reach



## Your Application

**CAN LIGHT REACH THE ENTIRE BOND-LINE THROUGH A TRANSPARENT SUBSTRATE?**

Yes

What type of substrates are you using?

Highly Flexible Substrates

Transparent Glass Substrates

Bonding to Plasticized PVC

Bonding to Plastic

Bonding to Silicone

Bonded to Glass

Bonded to Metal

Low Viscosity

Medium Viscosity

Flowable

Paste

Medium Viscosity

High Viscosity

## Solution

AA 3107™

AA 3974™

SI 5056™

SI 5050™

AA 3494™

AA 3525™

<b>Chemistry</b>	Acrylic	Acrylic	Silicone	Silicone	Acrylic	Acrylic
<b>Viscosity (cP)</b>	500	2,400	2,200	325 g/min.	5,500	15,000
<b>Color</b>	Clear/Straw/Translucent	Translucent/Colorless	Translucent	Translucent	Clear/Pale Straw	Clear/Pale Straw/Translucent
<b>Cure Type</b>	UV, Visible	UV, Visible	UV, Visible	UV	UV, Visible	UV, Visible
<b>Fluorescent</b>	Yes	Yes	No	No	No	Yes
<b>Shear Strength (psi)</b>	900 <sup>1</sup>	1,910 <sup>2</sup>	440 <sup>1</sup>	N/A	2,440 <sup>3</sup>	1,480 <sup>3</sup>
<b>Elongation at Break (%)</b>	220	100	170	125	190	260

## Product Description

### LOCTITE® AA 3107™ Light Cure Adhesive

A low viscosity UV/visible light cure adhesive designed primarily for bonding heavily plasticized PVC. Flexible and fluorescent.

**P/N** **Package Size**  
28466 1 liter bottle

### LOCTITE® AA 3974™ Light Cure Adhesive

A medium viscosity highly flexible UV/visible light cure adhesive. Very soft when cured to accommodate varying material CTEs. Excellent resistance to thermal cycling and environmental exposure.

**P/N** **Package Size**  
1135733 25 ml syringe  
1135732 1 liter bottle

### LOCTITE® SI 5056™ Light Cure Adhesive

A self-leveling UV/visible light cure adhesive/sealant designed for bonding and sealing applications with highly flexible bond lines. Provides high adhesion to silicone substrates.

**P/N** **Package Size**  
1214249 25 ml syringe  
1214250 1 liter bottle  
1214248\* 15 liter pail

### LOCTITE® SI 5050™ Light Cure Adhesive

A highly viscous cure-in-place UV light cure adhesive/sealant designed for gasketing, sealing and bonding applications with highly flexible bond lines. Provides high adhesion to silicone substrates.

**P/N** **Package Size**  
1212165 40 lb. pail

### LOCTITE® AA 3494™ Light Cure Adhesive

A medium viscosity UV/visible light cure adhesive designed for bonding glass and other materials where resistance to humidity and water immersion is required.

**P/N** **Package Size**  
30765 25 ml syringe  
29487 1 liter bottle

### LOCTITE® AA 3525™ Light Cure Adhesive

A high viscosity UV/visible light cure adhesive designed for bonding glass, metals and plastics with excellent flexibility, toughness and durability to moisture exposure.

**P/N** **Package Size**  
30220 25 ml syringe  
30221 1 liter bottle

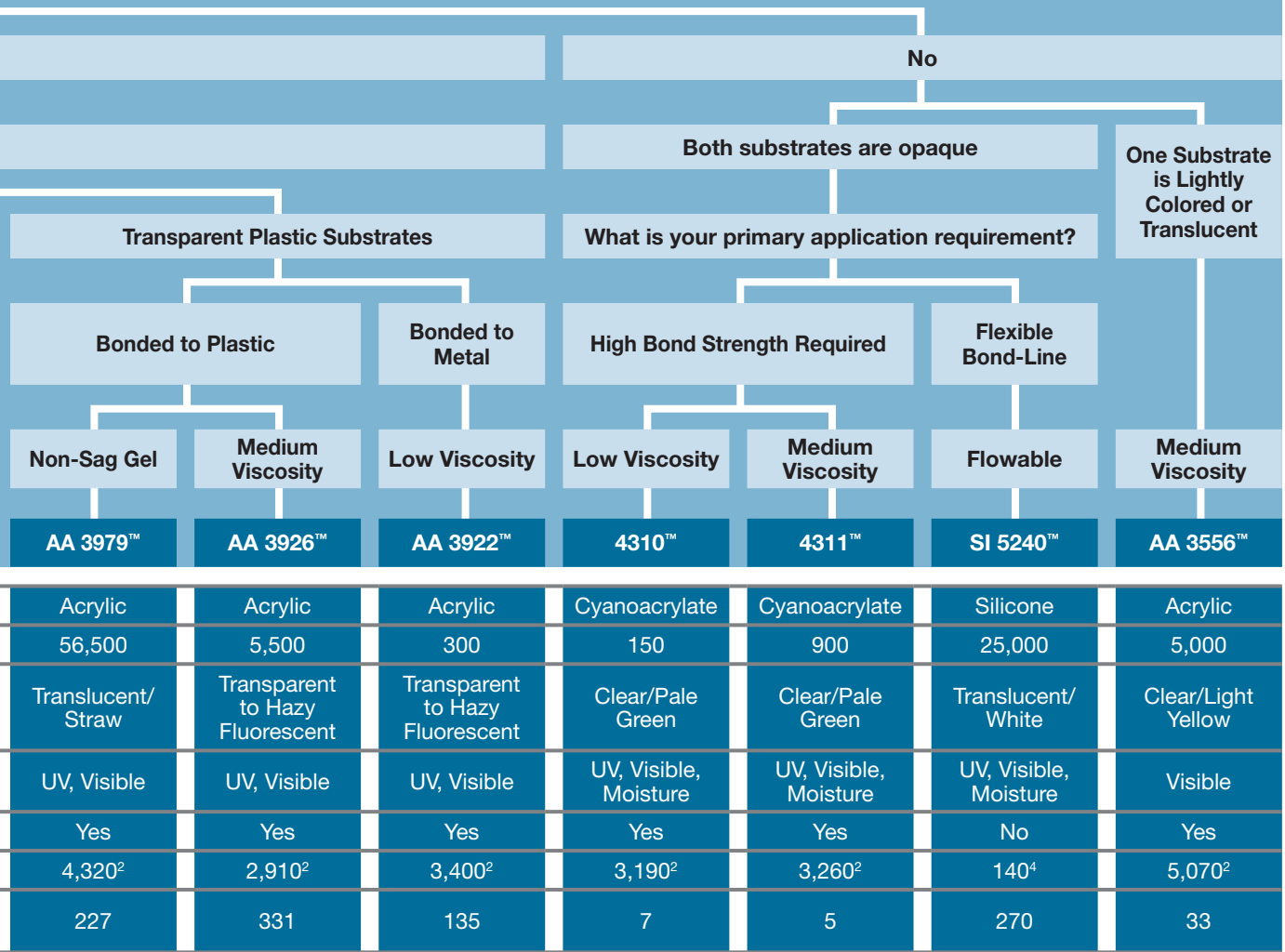
\* Made-to-order item.

1 Polycarbonate to PVC.

2 Polycarbonate to polycarbonate.

3 Glass to steel.

4 PVC to glass.



**LOCTITE® AA 3979™ Light Cure Adhesive Gel, Fluoresces Red**  
 A UV/visible light cure adhesive designed for bonding plastics and other materials that fluoresces red to distinguish it from blue fluorescing substrates. Non-sag gel eliminates dripping.  
**P/N      Package Size**  
 1402562 25 ml syringe  
 1402563 300 g cartridge

**LOCTITE® AA 3926™ Light Cure Adhesive**  
 A medium viscosity UV/visible light cure adhesive designed for bonding plastics, metals and glass with superior sterilization resistance and flexibility.  
**P/N      Package Size**  
 36492 25 ml syringe  
 36493 1 liter bottle

**LOCTITE® AA 3922™ Light Cure Adhesive**  
 A low viscosity UV/visible light cure adhesive designed for bonding plastics, metals and glass with superior sterilization resistance. Excellent adhesion to polycarbonate.  
**P/N      Package Size**  
 32083 25 ml syringe  
 32047\* 1 liter bottle

**LOCTITE® 4310™ Light Cure Adhesive Dual Cure Instant Adhesive**  
 A low viscosity UV/visible light and moisture cure adhesive designed for rapid curing of exposed adhesive as well as curing in shadowed areas where light does not reach.  
**P/N      Package Size**  
 1401792 1 oz. bottle  
 1401790 1 lb. bottle

**LOCTITE® 4311™ Light Cure Adhesive Dual Cure Instant Adhesive**  
 A medium viscosity UV/visible light and moisture cure adhesive designed for rapid curing of exposed adhesive as well as curing in shadowed areas where light does not reach.  
**P/N      Package Size**  
 1401791 1 oz. bottle  
 1401789 1 lb. bottle

**LOCTITE® SI 5240™ Light Cure Adhesive Self-Leveling/Noncorrosive**  
 A flowable UV/visible light and moisture curing adhesive designed for bonding and sealing applications with highly flexible bond lines. Forms a medium strength, flexible rubber sealant.  
**P/N      Package Size**  
 1010341 25 ml syringe  
 1010320 300 ml cartridge  
 1010343\* 40 lb. pail

**LOCTITE® AA 3556™ Light Cure Adhesive**  
 A medium viscosity UV/visible light cure adhesive designed for bonding lightly colored or translucent substrates with a large depth of cure. Suitable for bonding polycarbonate and other materials.  
**P/N      Package Size**  
 1072223 25 ml syringe  
 1072222 1 liter bottle

# Light Cure Adhesives



## Loctite® Light Cure Adhesive Properties Chart

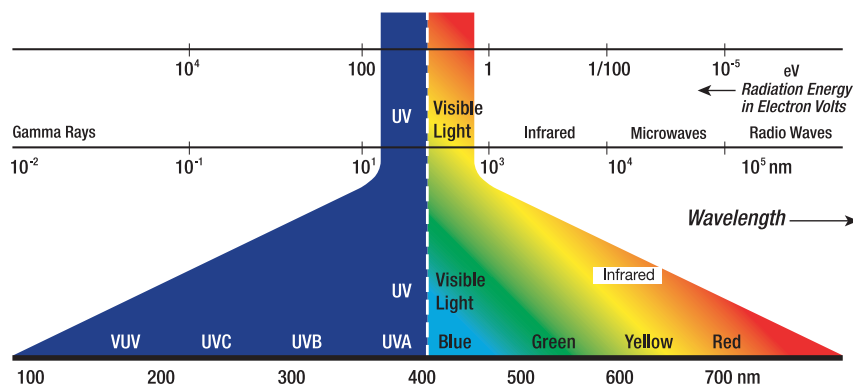
LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	APPEARANCE, CLARITY & COLOR	CURE TYPE	KEY SUBSTRATES	VISCOSITY (cP), BROOKFIELD, 25°C	ELONGATION AT BREAK (%)	SHORE HARDNESS	TEMPERATURE RANGE	AGENCY APPROVALS
EPOXY ADHESIVES	EA 3336™	31064 31065	42 ml dual syringe 400 ml dual syringe	Clear/ Light Amber	Ultraviolet, room temperature, heat	Metal, thermoplastic	14,500	6	D 79	-65°F (-54°C) to 350°F (176°C)	N/A
	EA 3355™	40792	25 ml syringe	Hazy White	Ultraviolet, delay cure	Metal, plastic, glass, ceramic	5,000	11.5	D 77	-65°F (-54°C) to 350°F (176°C)	N/A
CYANOACRYLATES ADHESIVES	4306™	37439 37442*	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	20	9	D 72	-65°F (-54°C) to 180°F (82°C)	ISO 10993 Compliant
	4310™	1401792 1401790	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	150	7	D 84	-65°F (-54°C) to 200°F (93°C)	ISO 10993 Compliant
	4311™	1401791 1401789	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	900	5	D 84	-65°F (-54°C) to 200°F (93°C)	ISO 10993 Compliant
SILICONE ADHESIVES	SI 5031™	40086 40087	300 ml cartridge 40 lb. pail	Translucent	Visible, ultraviolet, moisture, acetoxy	Glass, metal, ceramic	5,500	100	A 34	-65°F (-54°C) to 350°F (177°C)	N/A
	SI 5033™	40088 40089	300 ml cartridge 40 lb. pail	Translucent/ Colorless/ Fluorescent	Visible, ultraviolet, moisture, acetoxy	Glass, metal, ceramic	145 g/min. <sup>†</sup>	170	A 55	-65°F (-54°C) to 350°F (177°C)	N/A
	SI 5039™	40438 40439	300 ml cartridge 40 lb. pail	Translucent/ Colorless/ Fluorescent	Visible, ultraviolet, moisture, acetoxy	Glass, metal, ceramic	220 g/min. <sup>†</sup>	210	A 37	-65°F (-54°C) to 350°F (177°C)	N/A
	SI 5050™	1212165	40 lb. pail	Translucent	Ultraviolet	Glass, metal, ceramic	325 g/min. <sup>†</sup>	125	A 45	-65°F (-54°C) to 350°F (177°C)	N/A
	SI 5056™	1214249 1214250 1214248	25 ml syringe 1 liter bottle 15 liter pail	Translucent	Visible, ultraviolet	Glass, metal, ceramic, polycarbonate	2,200	170	A 43	-65°F (-54°C) to 200°F (93°C)	ISO 10993 Compliant
	SI 5083™	17528 17635	300 ml cartridge 40 lb. pail	Translucent/ Colorless	Ultraviolet, moisture, acetoxy	Glass, metal, ceramic	145 g/min. <sup>†</sup>	170	A 55	-65°F (-54°C) to 350°F (177°C)	N/A
	SI 5091™	17412 18074	300 ml cartridge 40 lb. pail	Translucent/ Colorless	Ultraviolet, moisture, acetoxy	Glass, metal, ceramic	5,500	100	A 34	-65°F (-54°C) to 350°F (177°C)	UL Classified for U.S.
	SI 5240™	1010341 1010320 1010343*	25 ml syringe 300 ml cartridge 40 lb. pail	Translucent/ White	Visible, ultraviolet, moisture	Glass, metal, ceramic	18,000	270	A 45	-65°F (-54°C) to 200°F (177°C)	ISO 10993 Compliant

ITEMS IN RED = Source's PICK or NEW

⊕ = Indicates Worldwide Availability

\* Made-to-order item.

## The Electromagnetic Spectrum



Light curing adhesives must be exposed to light of the proper wavelength and intensity to cure. The UV and visible light wavelengths used to cure adhesives comprises a small portion of the complete electromagnetic spectrum shown. For the most effective cure, the spectral output of the light source used must match the adhesive pattern of light absorption. For more details, see Henkel's *Light Cure Technology Guide* (LT-2730/LT-2013).

# Loctite® Light Cure Adhesive Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	APPEARANCE, CLARITY & COLOR	CURE TYPE	KEY SUBSTRATES	VISCOSITY (cP), BROOKFIELD, 25°C	ELONGATION AT BREAK (%)	SHORE HARDNESS	TEMPERATURE RANGE	SHEAR STRENGTH (psi)	
VISIBLE	AA 3554™	1072199	25 ml syringe	Clear/ Light Yellow	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	300	7	D 77	-65°F (-54°C) to 300°F (149°C)	3,350 <sup>3</sup>
	AA 3555™	1072221 1072200	25 ml syringe 1 liter bottle	Clear/ Light Yellow	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	1,000	10	D 76	-65°F (-54°C) to 300°F (149°C)	2,350 <sup>3</sup>
	AA 3556™	1072223 1072222	25 ml syringe 1 liter bottle	Clear/ Light Yellow	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	5,000	29	D 70	-65°F (-54°C) to 300°F (149°C)	2,900 <sup>3</sup>
ULTRAVIOLET/VISIBLE	AA 3100™	19862	25 ml syringe	Slightly Hazy/ Straw	Ultraviolet, visible	Glass, metal, thermoset plastic	6,000	210	D 66	-65°F (-54°C) to 300°F (149°C)	1,670 <sup>2</sup>
	AA 3103™	23691 23692	25 ml syringe 1 liter bottle	Clear/ Pale Straw	Ultraviolet, visible	Polycarbonate, thermoplastic	10,000 Thixotropic	260	D 51	-65°F (-54°C) to 300°F (149°C)	2,849 <sup>3</sup>
	AA 3104™	23694	25 ml syringe	Clear/ Pale Straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinyl chloride	160	50	D 69	-65°F (-54°C) to 300°F (149°C)	3,155 <sup>3</sup>
	AA 3105™	23695 23696	25 ml syringe 1 liter bottle	Clear/ Pale Straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinyl chloride	300	265	D 64	-65°F (-54°C) to 300°F (149°C)	3,640 <sup>3</sup>
	AA 3106™	23697 23698	25 ml syringe 1 liter bottle	Clear/ Pale Straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinyl chloride	5,000	250	D 53	-65°F (-54°C) to 300°F (149°C)	3,392 <sup>3</sup>
	AA 3107™	28466	1 liter bottle	Clear/Straw/ Fluorescent	Ultraviolet, visible	Plasticized PVC, thermoplastic	500	220	D 27	-65°F (-54°C) to 300°F (149°C)	783 <sup>4</sup>
	AA 3494™	30765 29487	25 ml syringe 1 liter bottle	Clear/ Pale Straw	Ultraviolet, visible	Glass, metal	5,500	190	D 65	-65°F (-54°C) to 300°F (149°C)	2,440 <sup>1</sup>
	AA 3525™	30220 30221	25 ml syringe 1 liter bottle	Clear/ Pale Straw/ Fluorescent	Ultraviolet, visible	Glass, metal, thermoset plastic	15,000	260	D 60	-65°F (-54°C) to 300°F (149°C)	1,480 <sup>1</sup>
	AA 3526™	30756 30764	25 ml syringe 1 liter bottle	Clear/ Pale Straw/ Fluorescent	Ultraviolet, visible, heat	Glass, metal, thermoset plastic	17,500	185	D 62	-65°F (-54°C) to 300°F (149°C)	1,530 <sup>1</sup>
	AA 3922™	32083 32047	25 ml syringe 1 liter bottle	Transparent to Hazy/ Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	300	135	D 66	-65°F (-54°C) to 300°F (149°C)	3,400 <sup>3</sup>
	AA 3926™	36492 36493	25 ml syringe 1 liter bottle	Transparent to Hazy/ Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate	5,500	331	D 57	-65°F (-54°C) to 300°F (149°C)	2,910 <sup>3</sup>
	AA 3974™	1135733 1135732	25 ml syringe 1 liter bottle	Translucent/ Colorless	UV/Visible	Thermoplastic, thermoset plastic	2,400	100	A 77	-65°F (-54°C) to 300°F (149°C)	1,800 <sup>3</sup>
	AA 3979™	1402562 1402563	25 ml syringe 300 g cartridge	Translucent/ Straw	UV/Visible	Polycarbonate, polyvinyl chloride	56,500	227	D 56	-65°F (-54°C) to 300°F (149°C)	3,500 <sup>3</sup>
	ULTRAVIOLET	AA 349™	34931 34990	50 ml bottle 1 liter bottle	Clear/Straw	Ultraviolet	Glass, metal	9,500	300	D 70	-65°F (-54°C) to 266°F (130°C)
AA 363™		36331 36390	50 ml bottle 1 liter bottle	Clear/ Pale Straw	Ultraviolet	Metal, thermoset plastic	250	88	D 50	-65°F (-54°C) to 356°F (180°C)	1,740 <sup>1</sup>
AA 3108™		28400 28465	25 ml syringe 1 liter bottle	Translucent/ Colorless	Ultraviolet	Thermoplastic, thermoset plastic	5,100	330	A 72	-65°F (-54°C) to 300°F (149°C)	2,090 <sup>3</sup>
AA 3491™		28366 17944	25 ml syringe 1 liter bottle	Clear/ Pale Straw	Ultraviolet	Glass, metal	1,100	27	D 75	-65°F (-54°C) to 300°F (149°C)	1,450 <sup>1</sup>
AA 3751™		21362 21363	25 ml syringe 1 liter bottle	Clear/ Colorless	Ultraviolet	Various	10,000	50	D 73	-65°F (-54°C) to 275°F (135°C)	700 <sup>3</sup>
AA 352™		35241 35286	50 ml bottle 1 liter bottle	Clear/ Light Amber	Ultraviolet, heat, activator	Glass, metal	19,500	290	D 60	-65°F (-54°C) to 275°F (135°C)	2,400 <sup>1</sup>
AA 366™		36631 12224	50 ml bottle 1 liter bottle	Clear/ Light Amber	Ultraviolet, activator	Glass, metal	7,500	240	D 45	-65°F (-54°C) to 230°F (110°C)	1,450 <sup>1</sup>

ITEMS IN RED = Source's PICK or NEW

🌐 = Indicates Worldwide Availability

\* Grit-blasted steel.

<sup>1</sup> Grit-blasted steel to glass.

<sup>3</sup> Polycarbonate to polycarbonate.

<sup>1</sup> Extrusion rate, gram/minute, 1/8 in. orifice at 90 psi.

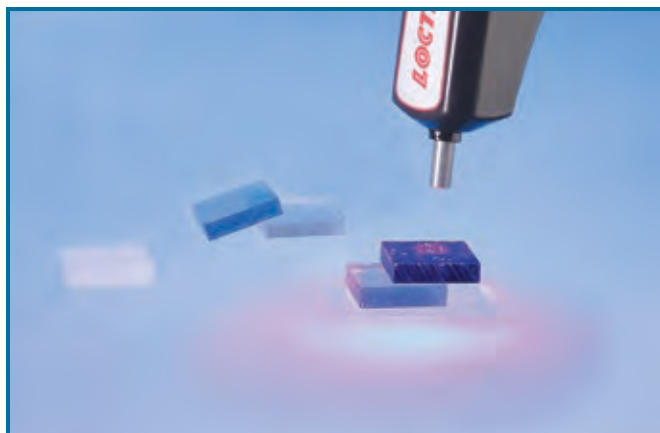
<sup>2</sup> Etched aluminum.


<sup>4</sup> Polycarbonate to PVC.




# Light Cure Adhesive Equipment





## YOUR EQUIPMENT Source

For more details, see the *Loctite® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPE AND SIZES	MIX RATIOS	VISCOSITY RANGE	TYPE	CONSUMABLES – DISPENSE ACCESSORIES
HANDHELD APPLICATORS	SYRINGE DISPENSING							
		30 ML MANUAL SYRINGE APPLICATOR	1544934	Any fluid in 30 ml syringe including 25 ml syringes	30 ml syringe	N/A	Low to High	Manual

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	ACTION	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD VALVES	GENERAL-PURPOSE APPLICATORS									
		MANUAL HAND-HELD APPLICATOR	97111	Manual	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175
		PNEUMATIC HAND-HELD APPLICATOR	97112	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Foot	
	PNEUMATIC HAND-HELD APPLICATOR	97116	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger		








LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
VALVES	HIGH PRECISION VALVES									
		MICRO NEEDLE VALVE	98084	High Precision	Low to Medium	Drop, Dot, Bead, Microdot	Light Cure/Acrylics	Yes	No	Dispense Tips and Accessories – Pages 174-175
		EQ VA30 JET VALVE	1850212	Non-Contact High Precision Jetting Valve	Low to High	Drop, Dot, Bead, Microdot	Light Cure Adhesives	No	No	
	HIGH PERFORMANCE DIAPHRAGM VALVES									
	VA10 MICRO DIAPHRAGM VALVE	1611449	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdot	Instant Adhesives	Yes	No	Dispense Tips and Accessories – Pages 174-175	
	LIGHT CURE DISPENSE VALVE	98009	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Light Cure Adhesives	Yes	No		

**EQUIPMENT** – Henkel is a full-service supplier of LOCTITE® branded equipment and offers a wide variety of equipment services to its customers. **For more LOCTITE® branded equipment, go to page 163.**




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**STRAIGHT FROM The Source**



LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
DISPENSE SYSTEMS	<b>VOLUMETRIC BOTTLE DISPENSING</b>								
		BENCHTOP PERISTALTIC DISPENSER	98548	Dot, Drop, Bead	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	Any Bottle	0 to 5,000 cP	Programmable	Dispense Tips and Accessories – Pages 174-175
	<b>COMPLETE PRESSURE-TIME BOTTLE DISPENSE SYSTEM</b>								
		BOND-A-MATIC® 3000 DISPENSER 0-15 psi	982719	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low  Medium to High	N/A	Dispense Tips and Accessories – Pages 174-175
		BOND-A-MATIC® 3000 DISPENSER 0-100 psi	982722						
	<b>SYRINGE DISPENSING SYSTEMS</b>								
		POSI-LINK™ DISPENSE SYSTEM	See Page 171	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Epoxies	Prepackaged 5 ml syringe 10 ml syringe 25 ml syringe	Low to Paste	Yes	Dispense Tips and Accessories – Pages 174-175
		PRECISION SYRINGE DISPENSING SYSTEM	97006*	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics	3 ml syringe 5 ml syringe 10 ml syringe 30 ml syringe 55 ml syringe	Low to Paste	Yes	Syringes – Pages 179-180
		DIGITAL SYRINGE DISPENSING SYSTEM	883976						
		SD10 DIGITAL SYRINGE DISPENSER	1514629						
	FOOT PEDAL DISPENSER	98050*							

\* Syringe Airline Adapter sold separately. Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) for all available accessories.

LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
DISPENSE SYSTEMS	<b>PNEUMATIC CARTRIDGE DISPENSING</b>								
		300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges	Low to Medium	No	Cartridge Accessories – Page 175
		HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	
	300 ML CARTRIDGE PUSHER	98022	0 to 50 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes		

LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
CONTROLLERS & RESERVOIRS	<b>INTEGRATED RESERVOIR CONTROLLERS</b>								
		INTEGRATED SEMI-AUTOMATIC DISPENSER	1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
				1390321				0 to 100 psi	
	<b>RESERVOIRS</b>								
		BOND-A-MATIC® 3000 RESERVOIR	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
			982726	0 to 100 psi				No	
			982723					Yes	
			982727					No	
		SHOT MISER™ RESERVOIR	98090	0 to 100 psi	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 200 g squeeze tube	Low to High	No	
		EQ VA30 JET CONTROLLER	1850211	0 to 100 psi	Light Cure Adhesives	10, 30, 55 ml Syringes	Low to High	No	Use with LOCTITE® EQ VA30 Jet Valve – 1850212

ITEMS IN RED = Source's PICK or NEW




Your Source for Motion Control Robot Dispense Systems. See page 169.




# Light Cure Adhesive Equipment





## YOUR EQUIPMENT *Source*




For more details, see the *Loctite® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT		ITEM NUMBER	CONTROLLED OUTPUTS	NUMBER OF DISPENSE VALVES	ADVANCING SLIDE	ROTOSPRAY™	ACCESSORIES
MULTIFUNCTION CONTROLLERS	 DUAL CHANNEL AUTOMATIC CONTROLLER	97152	2	2 (Independent)	97119 – 100 mm	97115	Visit <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> for more information on additional accessories.
	 DIGITAL MULTIFUNCTIONAL CONTROLLER	1022006	3	3 (Independent)	N/A	In conjunction with Positive Displacement Pump – 983330	
SINGLE FUNCTION CONTROLLERS	 DIGITAL DISPENSE CONTROLLER	97101	1	1	N/A	N/A	

LOCTITE® PRODUCT		ITEM NUMBER	LAMP TYPE
ENCLOSED CHAMBER AND FLOOD SYSTEMS			
LIGHT CURE UV BULB SYSTEMS	 ZETA® 7401 UV CHAMBER	98039	400-watt Metal Halide
	 ZETA® 7411-S UV FLOOD SYSTEM	98413	400-watt Metal Halide
	 FOCUSED UV FLOOD CURING SYSTEM	1113131	400-watt Metal Halide

LOCTITE® PRODUCT		ITEM NUMBER	LAMP TYPE
CURE CONVEYORS			
LIGHT CURE SYSTEMS	 ZETA® 7415 UV BENCHTOP CONVEYOR	98003	300 W/in Electrodeless (sold separately)
	 UV CURING CONVEYOR	1241543	1800-watt Medium Pressure Mercury Arc Lamp
LIGHT SOURCES			
LIGHT CURE SYSTEMS	 ELECTRODELESS LAMP ASSEMBLY AND POWER SUPPLY	98004 (208 VAC) 98005 (240 VAC)	300 W/in Electrodeless
	 HIGH INTENSITY ULTRAVIOLET SOURCES	980160	1500-watt Medium Pressure Mercury Arc Lamp

LOCTITE® PRODUCT		ITEM NUMBER	WAVELENGTH	OPTIONS/ACCESSORIES
LIGHT METERS				
LIGHT METERS	 RADIOMETER DOSIMETER FOR VISIBLE LED AND UV LIGHT	1265282	350 nm to 500 nm	Calibration services are available
	 RADIOMETER DOSIMETER FOR UV LED AND UV A/B LIGHT	1390323	320 nm to 400 nm	Calibration services are available
	 7020 UV SPOT RADIOMETER	1406024	280 nm to 400 nm	Calibration services are available

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**STRAIGHT FROM** *The Source*

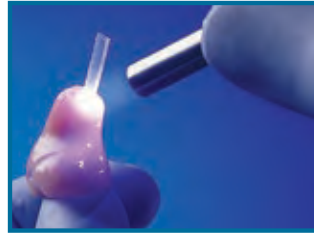
**WEAR EYE PROTECTION**

For proper eye protection, use LOCTITE® UV and visible light safety glasses.



Item No. 98452

**ADDITIONAL RESOURCES**



LOCTITE® PRODUCT		ITEM NUMBER	WAVELENGTH	OPTIONS/ACCESSORIES	
SPOT/WAND SYSTEMS	<b>LED CURING DEVICES</b>				
		<b>CUREJET™ 375 LED</b>	1369539	LED – 375 nm	Used with 1364033 or 1180632
		<b>CUREJET™ 405 LED</b>	1369538	LED - 405 nm	Used with 1364033 or 1180632
		<b>CUREJET™ INDIGO® LED</b>	1369537	LED - Proprietary Indigo Wavelength	Used with 1364033 or 1180632
		<b>LED CONTROLLER</b>	1364033	N/A	Used with all CUREJET™ LEDs
		<b>CUREJET™ QUAD CONTROLLER</b>	1180632	N/A	Used with all CUREJET™ LEDs
		<b>7700 LED LIGHT SOURCE</b>	1427231	LED - 405 nm	OPTIONAL: Foot Switch – 98440; Holder – 98522; Radiometer Dosimeter for Visible LED and UVW Light – 1265282; Dosimeter Adapter – 1403405
		<b>7700-HD LED LIGHT SOURCE</b>	1427232		
		<b>7703 LED LIGHT SOURCE</b>	806038	LED - Proprietary Indigo Wavelength	ONE OF THE FOLLOWING IS REQUIRED: Timer – 960356; PLC Cable – 8900550; Foot Switch – 97201; Pistol Grip Timer – 1003327
		<b>7703-HD LED LIGHT SOURCE</b>	883979		
		<b>EQ CL10 SINGLE LED CONTROLLER</b>	1514636	N/A	ONE OF THE FOLLOWING IS REQUIRED – sold separately: 6 mm Spot Dia. 365 nm. 2.7 meter cable – 1538499 6 mm Spot Dia. 405 nm. 2.7 meter cable – 1746633
		<b>EQ CL10 QUAD LED CONTROLLER</b>	1514634	N/A	
		<b>EQ CL15 UV WAND SYSTEM</b>	1661548	N/A	REQUIRES Light Guide 983677, 983684 or 951681 – sold separately
	FLOOD/LINE SYSTEMS		<b>LED FLOOD CONTROLLER</b>	1359255	N/A
		<b>LED FLOOD CURE, 375</b>	1167582	LED – 375 nm	Used with 1359255 in conjunction with cable 13333333
		<b>LED FLOOD CURE, INDIGO®</b>	1167589	LED – Indigo Wavelength	Used with 1359255 in conjunction with cable 13333333
		<b>LED FLOOD CURE, 405</b>	1167593	LED – 405 nm	Used with 1359255 in conjunction with cable 13333333
	<b>LED SINGLE LINE ARRAY CONTROLLER</b>	1447728	N/A	Requires Line Array cable (1483245) and one of the following – sold separately LED Line Array 405 nm Light Source – 1449336 LED Line Array 365 nm Light Source – 1449337	

ITEMS IN RED = Source's PICK or NEW

Your Source for Motion Control Robot Dispense Systems. See page 169.

# Solvent-Based & Specialty Adhesives

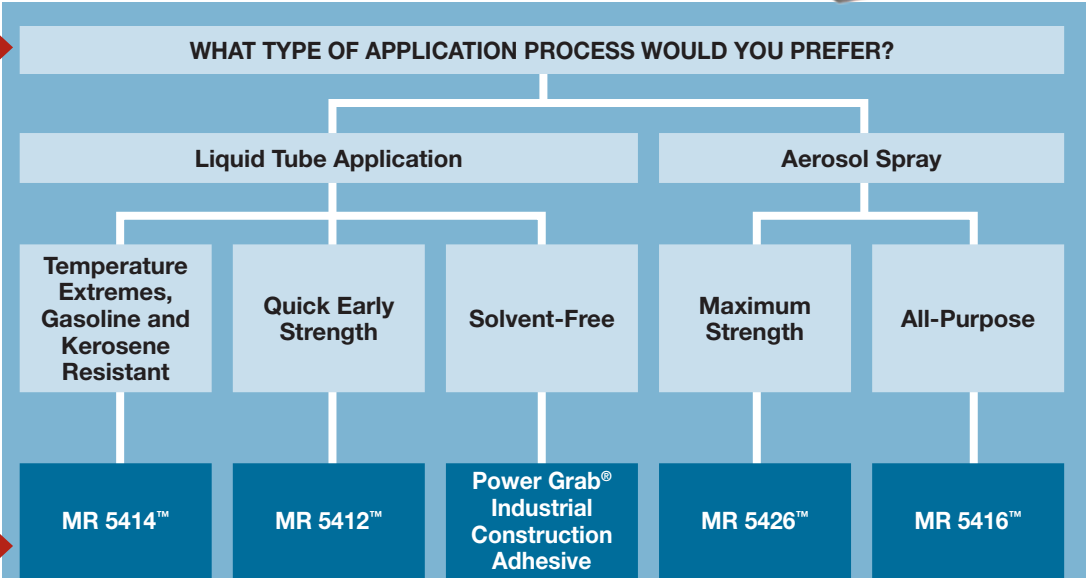


## Your Application

To meet tough on-the-job requirements, LOCTITE® solvent-based aerosol and liquid adhesives provide a combination of:

- Cure speed
- Impact resistance
- Strength
- Temperature range
- Solvent and moisture resistance

## Solution



Color	Black	Yellow	Clear	Clear	Clear
Temperature Range	Up to 180°F (82°C)	Up to 180°F (82°C)	Up to 120°F (49°C)	Up to 170°F (77°C)	Up to 120°F (49°C)
Fixture Time (min.)	2 to 3	2 to 3	20	15 to 20	15 to 20
Agency Approvals	CFIA Listed	CFIA Listed	N/A	N/A	N/A

## Product Description

### LOCTITE® MR 5414™ Black Contact Adhesive

A professional, solvent-based adhesive with neoprene that blends in with black-colored fabrics, rubbers, weather stripping and other porous materials. Withstands temperature extremes and is resistant to gasoline, kerosene and other solvents. Fast drying and waterproof. Allows repositioning of the parts after initial contact.

**P/N Package Size**  
30540 5 fl. oz. tube - Black

### LOCTITE® MR 5412™ Contact Adhesive

A fast drying, solvent-based adhesive with neoprene that bonds rubber, insulation, weather stripping and other porous materials. Sets to a tack-free surface in 3-4 minutes, and the early strength is enough to hold most parts together. Allows repositioning of the parts after initial contact.

**P/N Package Size**  
30537 5 fl. oz. tube - Yellow

### LOCTITE® Power Grab® Industrial Construction Adhesive

Single-component, off-white, heavy duty, high strength, construction grade adhesive for interior and exterior repairs or building projects.

**P/N Package Size**  
1804373 300 ml cartridge

### LOCTITE® MR 5426™ Maximum Strength Headliner Adhesive

A high strength, aerosol product designed for bonding foam, carpet, fabrics, plastics, rubber, etc. LOCTITE® Maximum Strength Headliner Adhesive is resistant to extreme seasonal temperatures, is water resistant and sprays on clear.

**P/N Package Size**  
37312 16.75 oz. net wt. aerosol

### LOCTITE® MR 5416™ All Purpose Spray Adhesive

Bonds lightweight, porous and nonporous surfaces. Allows for repositionable and permanent bonds. Fast drying; won't shrink or bleed. Resists water and humidity. Contains no ozone-depleting compounds.

**P/N Package Size**  
30544 10.5 oz. net wt. aerosol



## Loctite® Solvent-Based Adhesive Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR/APPEARANCE	TEMPERATURE RANGE	FIXTURE/BOND TIME	FULL CURE	COMMON SURFACES ADHESIVE WILL BOND	AGENCY APPROVALS
SOLVENT-BASED	MR 5414™	30540	5 fl. oz. tube	Black Gel	Up to 180°F (82°C)	Let breathe 2-3 minutes; sets up in 5-15 minutes.	24 hours at ambient temperature	Weather stripping, vinyl, rubber, wood and metal	CFIA Listed
	MR 5412™	30537	5 fl. oz. tube	Yellow Gel	Up to 180°F (82°C)				CFIA Listed
SPRAY ADHESIVES	MR 5426™	37312	16.75 oz. net wt. aerosol	Clear Drying, Semitranslucent Foam	Up to 170°F (77°C)	Let dry 15-20 minutes before assembly. Spray both sides to be bonded for maximum strength.	24 hours at ambient temperature	Foam, carpet, fabrics, plastics and rubber	N/A
	MR 5416™	30544	10.5 oz. net wt. aerosol	Clear Drying, Semitranslucent Foam	Up to 120°F (49°C)				N/A

## Loctite® Specialty Adhesive Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY	SHEAR STRENGTH (psi)	WORKING TIME (min.)	FIXTURE TIME (min.)	FULL CURE (hrs.)	MAXIMUM TEMPERATURE
SPECIALTY PRODUCT	POWER GRAB® INDUSTRIAL CONSTRUCTION ADHESIVE	1804373	300 ml cartridge	General-purpose construction adhesive	Clear	Paste	800*	15	20	24	120°F (49°C)

\* Pine (wet).

Visit the web for an all-access pass to locate your nearest LOCTITE® distributor, obtain MSDSs and Technical Data Sheets, literature, and product application assistance. Or call us:  
 In U.S., please call 1-800-LOCTITE (562-8483);  
 In Canada, please call 1-800-263-5043.

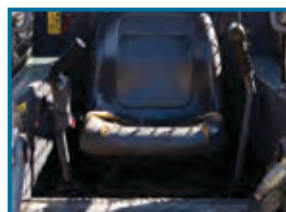
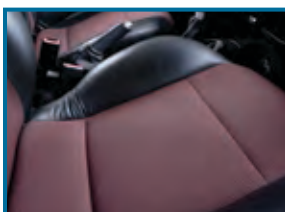
[na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite)

**STRAIGHT FROM** *The Source*

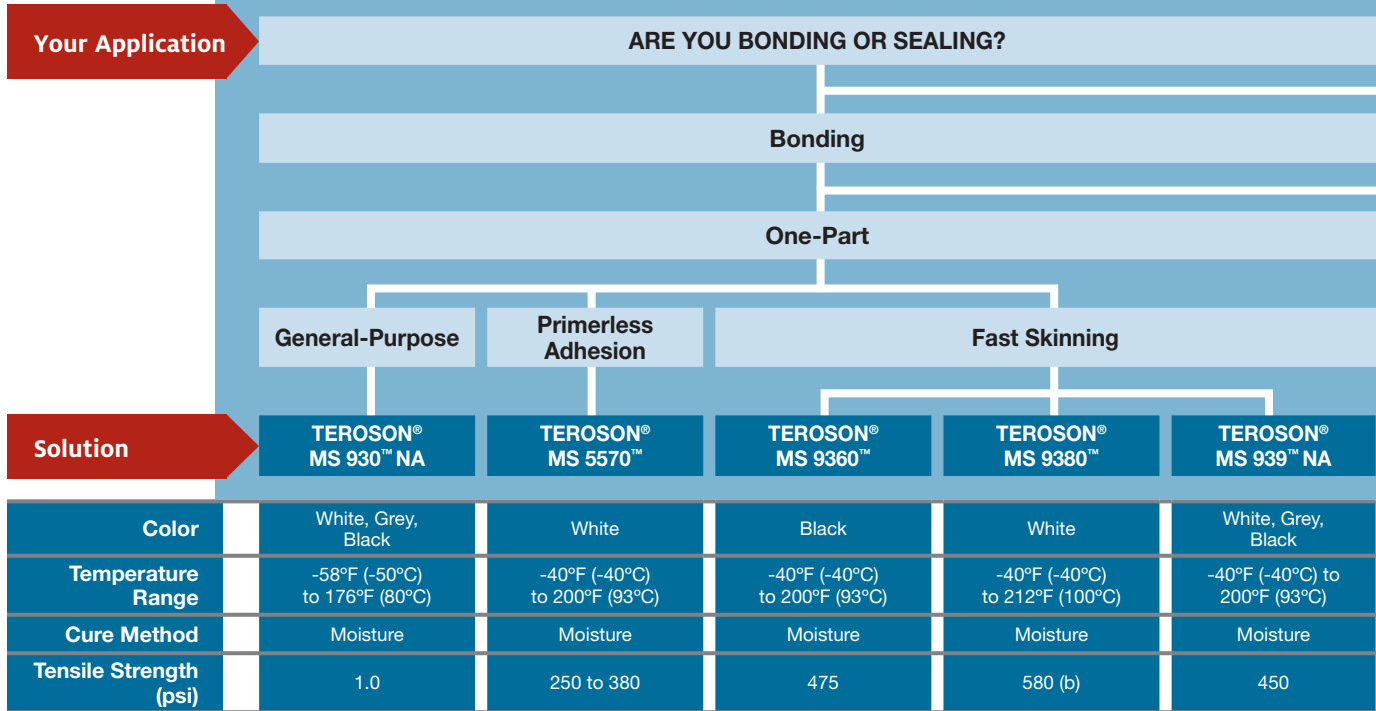
### THE BOND WILL BE INSTANT

For faster fixturing of these solvent-based contact adhesives, apply the adhesive to one side of both parts, and allow to breathe for one to two minutes. When the surface starts to appear dry, apply a small additional amount of adhesive to one side and assemble the sides together.

**HELPFUL HINTS**



# Elastomeric Adhesives for Bonding & Sealing



<b>Product Description</b>	<b>TEROSON® MS 930™ NA Polymer Sealant</b>	<b>TEROSON® MS 5570™ Elastic Adhesive</b>	<b>TEROSON® MS 9360™ Elastic Adhesive</b>	<b>TEROSON® MS 9380™ Elastic Adhesive</b>	<b>TEROSON® MS 939™ NA Polymer Sealant</b>																																																						
<ul style="list-style-type: none"> <li>Exhibit high resiliency while maintaining high tensile strength and good adhesion to many substrates – all without the use of a primer</li> <li>Ideal for bonding and sealing a multitude of substrates</li> <li>Silicones exhibit the highest temperature resistance compared to other products in this section</li> <li>Use Elastomeric Adhesives when joint flexibility – coefficient of thermal expansion (CTE) – is required</li> </ul>	<p>Designed for elastic seam and joint sealing, and bonding and coating of most metals and plastics. It is primerless, offers good UV and weather resistance, is paintable after applied and is solvent and isocyanate-free.</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>Package Size*</th> </tr> </thead> <tbody> <tr><td>2138431</td><td>290 ml cartridge, black</td></tr> <tr><td>2138430</td><td>290 ml cartridge, white</td></tr> <tr><td>2138429</td><td>290 ml cartridge, grey</td></tr> <tr><td>2138423</td><td>20 kg pail, black</td></tr> <tr><td>2138422</td><td>250 kg drum, black</td></tr> <tr><td>2138427</td><td>250 kg drum, white</td></tr> <tr><td>2138428</td><td>570 ml sausage, black</td></tr> <tr><td>2138425</td><td>570 ml sausage, white</td></tr> <tr><td>2138424</td><td>570 ml sausage, grey</td></tr> </tbody> </table>	P/N	Package Size*	2138431	290 ml cartridge, black	2138430	290 ml cartridge, white	2138429	290 ml cartridge, grey	2138423	20 kg pail, black	2138422	250 kg drum, black	2138427	250 kg drum, white	2138428	570 ml sausage, black	2138425	570 ml sausage, white	2138424	570 ml sausage, grey	<p>A strong bonding adhesive based on Flextec® Technology with elastic properties for bonding dissimilar substrates. High initial tack and fast setting make it ideal for high productivity applications.</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>Package Size*</th> </tr> </thead> <tbody> <tr><td>1565679</td><td>300 ml cartridge, white</td></tr> <tr><td>1567505*</td><td>50 lb. pail</td></tr> <tr><td>1578969*</td><td>250 kg drum</td></tr> </tbody> </table>	P/N	Package Size*	1565679	300 ml cartridge, white	1567505*	50 lb. pail	1578969*	250 kg drum	<p>This product exhibits the highest shear strength on a majority of substrates versus the other products in this line.</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>Package Size</th> </tr> </thead> <tbody> <tr><td>2115386</td><td>300 ml cartridge, black</td></tr> </tbody> </table>	P/N	Package Size	2115386	300 ml cartridge, black	<p>Designed for elastic bonding and sealing. High strength, elastomeric adhesive with fast skin time and excellent UV resistance.</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>Package Size</th> </tr> </thead> <tbody> <tr><td>1898443</td><td>290 ml cartridge, white</td></tr> </tbody> </table>	P/N	Package Size	1898443	290 ml cartridge, white	<p>Designed for elastic seam and joint sealing, and bonding and coating of most metals and plastics. It is primerless, offers good UV and weather resistance, is paintable after applied and is solvent and isocyanate-free.</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>Package Size</th> </tr> </thead> <tbody> <tr><td>2068378</td><td>290 ml cartridge, black</td></tr> <tr><td>2069997</td><td>290 ml cartridge, white</td></tr> <tr><td>2069400</td><td>290 ml cartridge, grey</td></tr> <tr><td>2069991</td><td>22.68 kg pail, black</td></tr> <tr><td>2069992</td><td>250 kg drum, black</td></tr> <tr><td>2069989</td><td>570 ml sausage, black</td></tr> <tr><td>2069988</td><td>570 ml sausage, white</td></tr> <tr><td>2069990</td><td>570 ml sausage, grey</td></tr> </tbody> </table>	P/N	Package Size	2068378	290 ml cartridge, black	2069997	290 ml cartridge, white	2069400	290 ml cartridge, grey	2069991	22.68 kg pail, black	2069992	250 kg drum, black	2069989	570 ml sausage, black	2069988	570 ml sausage, white	2069990	570 ml sausage, grey
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ADDITIONAL PRODUCTS AVAILABLE			
LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	DESCRIPTION
TEROSON® MS 9371™	700910	25 kg pail	B-component (hardener) for 2-component curing. Teroson® MS 9371™ is an accelerator paste for Teroson® adhesives and sealants.
TEROSON® SB 450™	642844	1 liter bottle	Alcohol solution designed for cleaning and to improve adhesion (thin fluid, colorless).

\* Pail and drums available made-to-order.  
 \*\* Uncarded tubes, sold as full cases of 100 pieces.



		Sealing				
Two-Part		One-Part				
Unlimited Depth of Cure	Noncorrosive	Primerless Adhesion	RTV	Mildew Resistant	Super Fast	
<b>TEROSON® MS 9399™</b>	<b>SI 5600™</b>	<b>TEROSON® MS 5510™</b>	<b>SI 593™ / SI 595™ / SI 594™</b>	<b>SI 5049™</b>	<b>TEROSON® MS 9320™</b>	
White, Black	Black, Grey, Almond	White, Grey, Black, Clear	Black, Clear, White	Clear, White	Grey	
-40°F (-40°C) to 200°F (93°C)	-40°F (-40°C) to 450°F (232°C)	-40°F (-40°C) to 200°F (93°C)	-65°F (-54°C) to 450°F (232°C)	-40°F (-40°C) to 250°F (121°C)	-22°F (-30°C) to 194°F (90°C)	
2-Component Mix	2-Component Mix	Moisture	Moisture	Moisture	Moisture	
435	250	250	115	115	260 (b)	

**TEROSON® MS 9399™ Elastic Adhesive**  
 A two-component adhesive for elastic bonding where the curing rate of one-component adhesives is too slow. The mixed adhesive is non-sag, has high tack and fast set time. The cured product provides durable bonding to a wide variety of substrates.

P/N	Package Size
32081733	400 ml dual cartridge, black
2081666	400 ml dual cartridge, white
2037227	29 kg pail, part A, black
1306968	29 kg pail, part B, black

**LOCTITE® SI 5600™ Silicone Adhesive Sealant**  
*Two-Part, Noncorrosive*  
 Fast, 5-minute fixture, high adhesion, flexible adhesive/sealant. Available in Black, Grey and Almond.

P/N	Package Size
41327	440 lb. drum, A, black
41732	575 lb. drum, B, white
922122	4.5 gallon pail, A, black
922089	3.5 gallon pail, B, white
922546	400 ml dual cartridge, black
922129	440 lb. drum, A, grey
41732	575 lb. drum, B, white
922128	4.5 gallon pail, A, grey
922089	3.5 gallon pail, B, white
922544	400 ml dual cartridge, grey
924107	4.5 gallon pail, A, almond
922089	3.5 gallon pail, B, white

**TEROSON® MS 5510™ Elastic Sealant**  
 A multipurpose product based on Flextec® Technology suitable for many adhesive and sealant applications. It offers a fast skin time and cures to a tack-free surface. Its outstanding adhesion and toughness make it ideal for bonding and sealing between dissimilar substrates that are subjected to joint movement or impact.

P/N	Package Size*
1562042	300 ml cartridge, white
1562040	300 ml cartridge, clear
1560557	300 ml cartridge, black
1562044	300 ml cartridge, grey
1567698	40 lb. pail, clear
1567697	50 lb. pail, white
1567506	50 lb. pail, grey
1567663	50 lb. pail, black
1578971	190 kg drum, clear
1579070	250 kg drum, grey
1579002	250 kg drum, black
1578972	250 kg drum, white

**LOCTITE® SI 593™ Black / SI 595™ Clear / SI 594™ White Silicone Adhesive Sealant**  
 This silicone product has excellent adhesion to most substrates. Key features are resistances to extreme thermal and UV cycling without hardening, shrinking or cracking.

P/N	Package Size
59330	80 ml tube, black
59375	300 ml cartridge, black
40464	190 ml can, black

**LOCTITE® SI 595™ Clear**

P/N	Package Size
1266142	0.5 oz. tube**, clear
59530	80 ml tube, clear
59575	300 ml cartridge, clear
40481	190 ml can, clear

**LOCTITE® SI 5049™ Silicone Adhesive Sealant**  
*Mold- and Mildew-Resistant, Fast Waterproof Seal*  
 Creates a tough, watertight, mildew-resistant seal on a wide range of substrates. Withstands water contact just two hours after application.

P/N	Package Size
1311327	300 ml cartridge, clear
1312042	300 ml cartridge, white

**TEROSON® MS 9320™ Elastic Adhesive**  
 Sealing system with super fast curing and excellent overpaintability. No cracks, no rust penetration. Unique application system (patent applied).

P/N	Package Size
1899447	300 ml cartridge, grey



# LOCTITE® Elastomeric Adhesive & Sealant Properties Charts

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR/ MIX RATIO	TYPICAL USE	GAP FILL	EXTRUSION RATE (g/min.)	TEMP. RANGE	CURE METHOD	CURE SPEED**	SPECIFIC GRAVITY	SHORE HARDNESS	% ELONGATION	TENSILE STRENGTH <sup>2</sup> (psi)	STATIC MIXER	AGENCY APPROVALS														
<b>NONCORROSIVE, 2-PART SILICONE</b>	<b>SI 5600™</b>	Part A - 41327 Part B - 41732	440 lb. drum 575 lb. drum	Black/ 2:1 A:B by volume	High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	UL Listed for U.S.													
		Part A - 922122 Part B - 922089	4.5 gallon pail 3.5 gallon pail																										
		922546	400 ml dual cartridge																										
			Part A - 922129 Part B - 41732	440 lb. drum 575 lb. drum	Grey/ 2:1 A:B by volume	High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	UL Listed for U.S.												
			Part A - 922128 Part B - 922089	4.5 gallon pail 3.5 gallon pail																									
			922544	400 ml dual cartridge																									
			Part A - 924107 Part B - 922089	4.5 gallon pail 3.5 gallon pail	Almond/ 2:1 A:B by volume	High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	UL Listed for U.S.												
			Part A - 41327 Part B - 1112888	440 lb. drum 575 lb. drum	Black/ 4:1 A:B by volume													High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	UL Listed for U.S.
			1138258	400 ml dual cartridge																									
	Part A - 922129 Part B - 1112888	440 lb. drum 575 lb. drum	Grey/ 4:1 A:B by volume	High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	N/A														
	Part A - 924107 Part B - 1112888	4.5 gal. pail 575 lb. drum	Almond/ 4:1 A:B by volume													High adhesion, fast fixture	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 10 min.	1.40	A 40	200	250	874905	N/A		
	<b>SI 5605™</b>	1250155	400 ml dual cartridge																									Grey/ 4:1 A:B by volume	General-purpose, high adhesion, fast fixture, noncorrosive, easy gunning
Part A - 1253201 <sup>†</sup> Part B - 1251677		4.5 gallon pail 3.5 gallon pail																											
Part A - 1253202 <sup>††</sup> Part B - 1250758		440 lb. drum 575 lb. drum																											
<b>SI 5606™</b>	1250154	400 ml dual cartridge	Grey/ 4:1 A:B by volume	General-purpose, high adhesion, fast fixture, noncorrosive, easy gunning	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 15 min.	1.375	A 38	170	260	874905	UL 94 HB														
	Part A - 1253201 <sup>†</sup> Part B - 1250755	4.5 gallon pail 3.5 gallon pail																											
	Part A - 1253202 <sup>††</sup> Part B - 1250156	440 lb. drum 575 lb. drum																											
<b>SI 5607™</b>	1252929	400 ml dual cartridge	Grey/ 2:1 A:B by volume	General-purpose, high adhesion, fast fixture, noncorrosive, easy gunning	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	Tack-Free – 45 min.	1.425	A 43	150	225	874905	N/A														
	Part A - 1253201 <sup>†</sup> Part B - 1250756	4.5 gallon pail 3.5 gallon pail																											
	Part A - 1253202 <sup>††</sup> Part B - 1250757	440 lb. drum 575 lb. drum																											

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	CONSISTENCY	OIL RESISTANCE	TEMPERATURE RANGE (INTERMITTENT)	SEALING TIME	AGENCY APPROVALS	
<b>SEALANTS/DRESSINGS FOR EXISTING GASKETS</b> <b>NONCORROSIVE</b>	<b>SI 5049™</b>	1311327	300 ml cartridge	Clear	Paste	N/A	Watertight – 2 hrs.	ISO 846	
		1312042	300 ml cartridge	White					
	<b>TEROSON® MS 5510™</b>	1562042	300 ml cartridge	White	Paste	Not recommended for oils or fuels	-40°F to 200°F (-40°C to 93°C)	1 to 7 days	N/A
		1567697*	50 lb. pail						
		1578972*	250 kg drum						
		1562040	300 ml cartridge	Clear					
1567698*	40 lb. pail	Black							
1578971*	190 kg drum								
1560557	300 ml cartridge	Grey							
1567663*	50 lb. pail								
1579002*	250 kg drum								
1562044	300 ml cartridge	Black							
1567506*	50 lb. pail								
1579070*	250 kg drum								
<b>TEROSON® MS 939™</b>	2068378 2069991	290 ml cartridge 22.68 kg pail	Black	Paste	Not recommended for oils or fuels	-40°F (-40°C) to 200°F (93°C)	1 to 7 days	N/A	

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	CONSISTENCY	OIL RESISTANCE	TEMPERATURE RANGE (INTERMITTENT)	SEALING TIME	AGENCY APPROVALS
<b>SILICONE ADHESIVE SEALANT</b>	<b>SI 593™</b>	59330	80 ml tube	Paste	N/A	-65°F to 450°F (-54°C to 232°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	CFIA Listed
		59375 40464	300 ml cartridge 190 ml can					
	<b>SI 595™</b>	1266142 59530 59575 40481	0.5 oz. tube** 80 ml tube 300 ml cartridge 190 ml can	Clear				UL Listed for U.S., NSF/ANSI 51, CFIA
<b>SI 594™</b>	59430 59475 40466	80 ml tube 300 ml cartridge 190 ml can	White				CFIA Listed	

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item. \*\* Varies with substrates. <sup>1</sup> Extrusion rate at 73°F, 3.5 mm diameter, 3 bar, for 15 seconds. <sup>2</sup> Grit-blasted steel. <sup>3</sup> SI 5600™ Series — Part A (1253201) can be used with SI 5605™, SI 5606™, SI 5607™ — Part B (3.5 gallon pail).  
<sup>†</sup> SI 5600™ Series — Part A (1253202) can be used with SI 5605™, SI 5606™, SI 5607™ — Part B (575 lb. drum). <sup>††</sup> Uncured tubes, sold as full cases of 100 pieces.









## TEROSON® Elastomeric Adhesive & Sealant Properties Chart



TEROSON® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	EXTRUSION RATE <sup>1</sup> (g min.)	CURE METHOD	SKIN TIME (min.)	TEMPERATURE RANGE	SHORE HARDNESS	TENSILE STRENGTH <sup>2</sup> (psi)	ELONGATION AT BREAK (%)	SHEAR STRENGTH ON STEEL (psi)	
<b>ELASTOMERIC ADHESIVES</b>	<b>TEROSON® MS 5570™</b>	1565679 1567505* 1578969*	300 ml cartridge 50 lb. pail 250 kg drum	White	150	Moisture	30	-40°F (-40°C) to 200°F (93°C)	A 55	380	230	400
	<b>TEROSON® MS 9360™</b>	2115386	300 ml cartridge	Black	90	Moisture	12	-40°F (-40°C) to 200°F (93°C)	A 55	475	225	425
	<b>TEROSON® MS 9399™</b>	2081733 2081666	400 ml dual cartridge 400 ml dual cartridge	Black White	N/A	Two-Component Static Mix	25	-40°F (-40°C) to 200°F (93°C)	A 60	435	130	290
	<b>TEROSON® MS 9399™ PART A</b>	2037227	29 kg pail	Black								
	<b>TEROSON® MS 9399™ PART B</b>	1306968	29 kg pail	Black								
	<b>TEROSON® MS 9320™</b>	1899447	300 ml cartridge	Grey	NA	Moisture	10 to 20	-22°F (-30°C) to 194°F (90°C)	30	260 (b)	300	200
	<b>TEROSON® MS 9380™</b>	1898443	290 ml cartridge	White	NA	Moisture	5 to 10	-40°F (-40°C) to 212°F (100°C)	65	580 (b)	120% (b)	360
	<b>TEROSON® MS 930™ NA†</b>	2138431 2138430 2138429 2138423 2138422 2138427 2138428 2138425 2138424	290 ml cartridge 290 ml cartridge 290 ml cartridge 20 kg pail 250 kg drum 250 kg drum 570 ml sausage 570 ml sausage 570 ml sausage	Black White Grey Black Black White Black White Grey	NA	Moisture	25 to 40	-58°F (-50°C) to 176°F (80°C)	30	1	250	120
	<b>TEROSON® MS 939™ NA†</b>	2068378 2069997 2069400 2069991 2069992 2069989 2069988 2069990	290 ml cartridge 290 ml cartridge 290 ml cartridge 22.68 kg pail 250 kg drum 570 ml sausage 570 ml sausage 570 ml sausage	Black White Grey Black Black Black White Grey	90	Moisture	5	-40°F (-40°C) to 200°F (93°C)	A 55	390	500	270

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item. \*\* Uncarded tubes, sold as full cases of 100 pieces. † Agency approval: UL Classified/Listed for the U.S.

## Elastomeric Equipment

LOCTITE® PRODUCT	ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES - DISPENSE ACCESSORIES
<b>MANUAL CARTRIDGE DISPENSING</b>							
 <b>MANUAL CARTRIDGE APPLICATOR 300 ML</b>	1093940	N/A	Henkel Construction Adhesives, Caulking products in 10 oz. caulking tubes	300 ml cartridges	Medium to High	N/A	Cartridge Accessories - Page 175
<b>PNEUMATIC CARTRIDGE DISPENSING</b>							
 <b>HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER</b>	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	Cartridge Accessories - Page 175
 <b>HIGH PRESSURE 300 ML BENCHTOP CARTRIDGE DISPENSER</b>	1046901	0 to 725 psi	Silicone, Polyurethane, MS Polymer Adhesives	290 ml cartridges 300 ml cartridges 310 ml cartridges	10,000 to 1,000,000 cP	Yes	Use with High Pressure Dispense Valve (sold separately) - see below
 <b>SOFT PRESS HAND HELD PNEUMATIC APPLICATOR</b>	250052	0 to 125 psi	Adhesive Packaged in Soft Packs	Soft Pack	Low to High	N/A	582416 - Soft Press Pneumatic Applicator Nozzle (1)
 <b>TEROSON® MULTIPRESS TELESCOPIC DISPENSER</b>	142241	0 to 145 psi	Sprayable SMP Adhesives	300 ml Cartridge	Low to High	N/A	547882 - Pneumatic Spray Applicator Nozzle Kit (12)
 <b>TEROSON® POWERLINE II 300 ML DISPENSER</b>	960304	0 to 100 psi	MS Polymer Polyurethane	300/310 ml Cartridge	Medium to Very High	N/A	Cartridge Accessories - Page 175

LOCTITE® PRODUCT	ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES - DISPENSE ACCESSORIES
<b>HIGH VISCOSITY FLUID &amp; PASTE VALVES</b>								
 <b>VA26 DISPENSE VALVE - 50 BAR</b>	1960414	High Viscosity Fluid and Paste Valves	10,000 to 1,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	Yes	Dispense Tips and Accessories - Pages 174-175
 <b>HIGH PRESSURE DISPENSE VALVE - 150 BAR</b>	1153502	High Viscosity Fluid and Paste Valves	500,000 to 2,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	No	Dispense Tips and Accessories - Pages 174-175

The Adhesive Sourcebook 2017: Your Source for LOCTITE® products for design, assembly, manufacturing and maintenance

# Two-Step Acrylic Adhesives



## Your Application

- Combine the benefits of fast process speeds with tough, durable and environmentally resistant bond strengths
- Ideal for bonding ferrite, alnico and neodymium permanent magnets used in electric motors, small engines, speakers, transformers and other devices

## ARE YOU BONDING MAGNETS?

Yes

Ultra-Fast Fixture

Gap Filling

High Toughness

High Temperature Resistance

## Solution

AA 331™

AA A-671™

AA 392™

AA 334™

<b>Color</b>	Cream	Green	Amber	Yellow
<b>Viscosity (cP)</b>	20,000	30,000	6,500	80,000
<b>Gap Fill (in.)</b>	0.04	0.10	0.025	0.02
<b>Fixture Time</b>	20 sec.	30 to 60 sec.	60 sec.	90 sec.
<b>Cure Time (hours)</b>	24	24	24	24
<b>Shear Strength<sup>1</sup> (psi)</b>	3,100	2,500	2,500	2,800
<b>Temperature Resistance</b>	350°F (177°C)	311°F (155°C)	250°F (121°C)	350°F (177°C)
<b>Recommended Activator</b>	SF 7387™	Two-Part External Mix	SF 7387™	SF 7387™

## Product Description

### LOCTITE® AA 331™ Adhesive

#### Ultra-Fast Fixture

Toughened, activator-cure acrylic. Acid-free, noncorrosive to sensitive parts. Fixtures in 20 seconds and develops full strength in 30 minutes. Excellent high temperature resistance. Ideal for bonding close-fitting metals and magnets.

#### P/N Package Size

1057673 25 ml syringe  
1057674\* 1 liter bottle  
1062124\* 10 liter pail

### LOCTITE® AA A-671™ Adhesive

#### Gap Filling

Two-component external mix acrylic requires no static mixing or activators. Excellent humidity resistance and gap filling capability. Fast fixturing.

#### P/N Package Size

1256488 4,000 ml kit  
(adhesive/activator)  
1256501 19 liter pail, adhesive  
1255709 19 liter pail, activator

### LOCTITE® AA 392™ Adhesive

#### Fast Fixture/Toughened

One- or two-component, dual-cure acrylic. Provides fast fixture speed and tough, reliable bonds.

#### P/N Package Size

39250 50 ml tube  
39275 300 ml cartridge  
39280 1 liter bottle

### LOCTITE® AA 334™ Adhesive

#### High Temperature

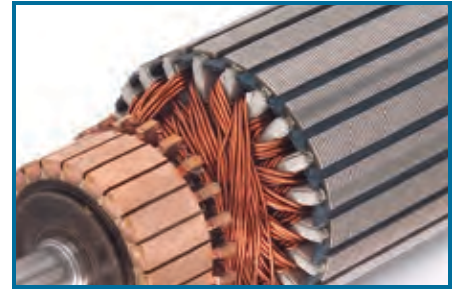
Two-component, dual-cure acrylic. Forms tough, flexible bonds on gaps up to 0.02 in. Resists temperatures up to 350°F.

#### P/N Package Size

33403 25 ml syringe  
33470 300 ml cartridge

\* Made-to-order item.

<sup>1</sup> Steel.



No			
Fast Fixture	Ultra-Fast Fixture	High Temperature Resistance	General-Purpose
AA 326™	AA 331™	AA 332™	AA 330™
Light Amber	Cream	Amber	Pale Yellow
17,000	20,000	100,000	67,500
0.02	0.04	0.02	0.03
1 min.	20 sec.	3 min.	5 min.
24	24	24	24
3,500	3,100	3,000	3,300
250°F (121°C)	350°F (177°C)	400°F (204°C)	250°F (121°C)
SF 7649™	SF 7387™	SF 7387™	SF 7387™

**LOCTITE® AA 326™ Adhesive**

**Fast Fixture**

An all-purpose bonder. Offers the strength of an epoxy and the speed of an instant adhesive. Solvent resistant. Cures in minutes. Ideal for applications requiring fast fixturing. Use with LOCTITE® SF 7649™.

P/N	Package Size
32629	50 ml bottle
32685	1 liter bottle

**LOCTITE® AA 331™ Adhesive**

**Ultra-Fast Fixture**

Toughened, activator-cure acrylic. Acid-free, noncorrosive to sensitive parts. Fixtures in 20 seconds and develops full strength in 30 minutes. Excellent high temperature resistance. Ideal for bonding close-fitting metals and magnets.

P/N	Package Size
1057673	25 ml syringe
1057674	1 liter bottle
1062124*	10 liter pail

**LOCTITE® AA 332™ Adhesive**

**High Temperature**

An activator-cured, no-mix adhesive that provides high temperature capability with thermal durability up to 400°F (204°C).

P/N	Package Size
33201	25 ml syringe
33275	300 ml cartridge
33290	1 liter bottle

**LOCTITE® AA 330™ Adhesive**

**General Purpose**

A general-purpose, high viscosity adhesive for a wide range of materials, including metal, wood, ferrite, ceramic and plastic.

P/N	Package Size
1691394	3 ml kit
1690727	25 ml kit
1691005	250 ml kit
1689700	250 ml tube
1689437	300 ml cartridge
1689439	1 liter bottle

**ACCELERATORS, ACTIVATORS & PRIMERS**

Henkel has a complete line of LOCTITE® surface preparation accelerators, activators and primers, as well as a complete line of general-purpose LOCTITE® branded cleaners and degreasers, and specialized products to ensure the maximum performance of LOCTITE® adhesives and sealants.

LOCTITE® activators – including SF 7387™, SF 7075™ and SF 7649™ – are specially engineered curing agents for structural adhesives.



# Two-Step Acrylic Adhesives



## LOCTITE® Two-Step Acrylic Adhesive Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	GAP FILL (in.)	FIXTURE TIME	CURE TIME (hrs.)	SHEAR STRENGTH <sup>1</sup> (psi)	TEMPERATURE RESISTANCE <sup>2</sup>	RECOMMENDED ACTIVATOR
GENERAL PURPOSE	AA 312™	03333 00144	10 ml kit <sup>3</sup> 50 ml kit <sup>4</sup>	General-Purpose, Ultra-fast Fixture	Clear to Amber	1,000	0.003	1 minute	24	>2,490	250°F (121°C)	SF 736™
	AA 325™	32530 32586	50 ml bottle 1 liter bottle	Severe Environment, Chemical Resistant	Clear Brown	20,000	0.040	5 minutes	24	1,600	300°F (149°C)	SF 7075™ or SF 7387™
	AA 324™	32430 32490	50 ml bottle 1 liter bottle	No Mix/ Small Gap	Amber	17,000	N/A	5 minutes	24	2,700	350°F (177°C)	SF 7387™ or SF 7075™
	AA 326™	32629 32685	50 ml bottle 1 liter bottle	Fast Fixture	Light Amber	17,000	N/A	1 minute	24	2,200	250°F (121°C)	SF 7649™
	AA 330™	1691394 1690727 1691005 1689700 1689437 1689439	3 ml kit <sup>5</sup> 25 ml kit <sup>6</sup> 250 ml kit <sup>7</sup> 250 ml tube 300 ml cartridge 1 liter bottle	General-Purpose	Pale Yellow	67,500	N/A	5 minutes	24	3,300	250°F (121°C)	SF 7387™
	AA 331™	1057673 1057674 1062124*	25 ml syringe with manual plunger 1 liter bottle 10 liter pail	Ultra-fast Fixture, Acid-free	Cream	20,000	0.040	20 seconds	24	3,100	350°F (177°C)	SF 7387™
	AA 332™	33201 33275 33290	25 ml syringe with manual plunger 300 ml cartridge 1 liter bottle	No Mix/ Small Gap	Amber	100,000	N/A	3 minutes	24	3,000	400°F (204°C)	SF 7387™
MAGNET BONDING	AA A-671™	1256488 1256501 1255709	4000 ml kit, adhesive/ activator 19 liter pail, adhesive 19 liter pail, activator	Gap Filling, Humidity Resistant, Fast Fixture External Mix	Green	30,000	0.100	30 to 60 seconds	24	2,500 to 3,000	401°F (205°C)	Two-Part External Mix
	AA A-6750™	1256503* 1255702*	2 liter bottle, adhesive 2 liter bottle, activator	Extended Working Time, Large Gaps External Mix	Green	30,000	0.200	10 to 13 minutes	3	2,500 to 3,000	311°F (155°C)	Two-Part External Mix
	AA 334™	33403 33470	25 ml syringe with manual plunger 300 ml cartridge	Severe Environment, High Temperature	Yellow	80,000	0.020	60 seconds	24	2,800	350°F (177°C)	SF 7387™ or SF 7380™
	AA 392™	39250 39275 39280	50 ml tube 300 ml cartridge 1 liter bottle	High Toughness, Heat or Activator Cure	Amber	6,500	0.025	60 seconds	24	2,500	250°F (121°C)	SF 7387™
	AA 3060™	1087986 1087987	1 liter bottle, adhesive 1 liter bottle, activator	Room Temperature, Gap Filling, Acid-free External Mix	Green	15,000	>0.050	75 seconds	24	4,270	300°F (149°C)	Two-Part External Mix

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.

<sup>1</sup> Steel.

<sup>2</sup> Product is heat aged at temperature and tested at 72°F (22°C). Product maintained ≥ 75% of its initial strength.

<sup>3</sup> 10 ml bottle of LOCTITE® AA 312™ and 40 g aerosol can of LOCTITE® SF 736™ Activator

<sup>4</sup> 50 ml bottle of LOCTITE® AA 312™ and 6 oz. aerosol can of LOCTITE® SF 736™ Activator

<sup>5</sup> Contains 2.5 ml tube of LOCTITE® 330™ Adhesive and 0.6 ml ampule of LOCTITE® SF 7387™ Activator.

<sup>6</sup> Contains 25 ml syringe of LOCTITE® 330™ Adhesive and 25 g aerosol can of LOCTITE® SF 7387™ Activator.

<sup>7</sup> Contains 250 ml tube of LOCTITE® 330™ Adhesive and 128 g of LOCTITE® SF 7387™ Activator.

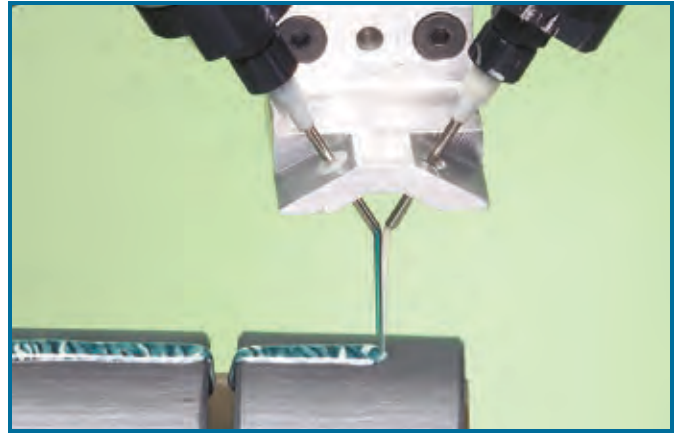
## LOCTITE® Activator & Primer Properties Chart








	LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
ACTIVATORS	SF 7075™	21349 22671	1 quart can 4.5 oz. net wt. aerosol can	Amber	2	Acetone	2 hours	3 minutes	324™ or 325™	N/A
	SF 7380™	19822 19824 19907	1 liter can 1.75 fl. oz. bottle 1 gallon	Light Brown	43	No solvent	2 hours	None	Structurals	N/A
	SF 7387™	18861 18862 21088	1.75 fl. oz. bottle 1 quart can 4.5 oz. net wt. aerosol can	Light Brown	1.5	Heptane/ Isopropanol	2 hours	None	Structurals	N/A
PRIMER	SF 7649™	19269 21347 21348 19266	1.75 fl. oz. glass bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can	Clear/Green	2	Acetone	30 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed




# Two-Step Acrylic Adhesive Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT		ITEM NUMBERS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	PRESSURE REGULATION	LOW LEVEL SENSING
<b>SYRINGE DISPENSING – SIMPLE MANUAL DISPENSERS FOR LOW VOLUME SYRINGE APPLICATIONS</b>							
	<b>30 ML MANUAL SYRINGE APPLICATOR</b>	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	N/A	N/A
	<b>10 / 30 ML SYRINGE MANUAL PLUNGERS</b>	98192	Any fluid in a 10 ml syringe	10 ml syringe (3 pack)	Low to High	N/A	N/A
		98193	Any fluid in a 30 ml syringe	30 ml syringe (3 pack)			
<b>TUBE DISPENSING – EASY AND EFFECTIVE TUBE DISPENSING</b>							
	<b>50 ML-F TUBE SQUEEZE DISPENSER</b>	1083845	Any 50 ml tube	50 ml tubes	Low to High	N/A	N/A
<b>PRESSURE-TIME BOTTLE DISPENSE SYSTEMS – VERSATILE SYSTEMS FOR DISPENSING A WIDE RANGE OF PRODUCTS IN A VARIETY OF ADHESIVE BOTTLE SIZES</b>							
	<b>BOND-A-MATIC® 3000 DISPENSER</b>	982719	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle	Low	0 to 15 psi	No
	<b>BOND-A-MATIC® 3000 DISPENSER</b>	982722		1 liter bottle 2 kg bottle 200 g squeeze tube			
	<b>INTEGRATED SEMIAUTOMATIC DISPENSER</b>	1390322	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle	Low to Medium	0 to 15 psi	Yes
		1390321		1 liter bottle 2 kg bottle 200 g squeeze tube			
<b>PNEUMATIC CARTRIDGE DISPENSING</b>							
	<b>HIGH PRESSURE 300 ML BENCHTOP CARTRIDGE DISPENSER</b>	1046901	Silicone, Polyurethane, MS Polymer Adhesives	290 ml cartridges 300 ml cartridges 310 ml cartridges	10,000 to 1,000,000	0 to 725 psi	Yes
	<b>300 ML CARTRIDGE PUSHER</b>	98022	Gel Adhesives, Anaerobic Gasketing, Light Cure Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	0 to 50 psi	Yes

LOCTITE® PRODUCT	ITEM NUMBERS	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
<b>HIGH PRECISION VALVES</b>								
	97113	High Precision	Low to Medium	Drop, Dot, Bead	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
	97114							
<b>HIGH VISCOSITY FLUID AND PASTE VALVES</b>								
	1960414	High Viscosity Fluid and Paste Valves	10,000 to 1,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
	1153502		500,000 to 2,000,000 cP				No	

**ADDITIONAL ACCESSORIES SOLD SEPARATELY**



1095801 – External Mix Assembly, designed for positioning two (2) separate dispense valves (sold separately) in proper alignment for high-speed dispensing of a 2-part, externally mixed adhesive without the use of a static mix nozzle.

**Your Source for Motion Control Robot Dispense Systems. See page 169.**

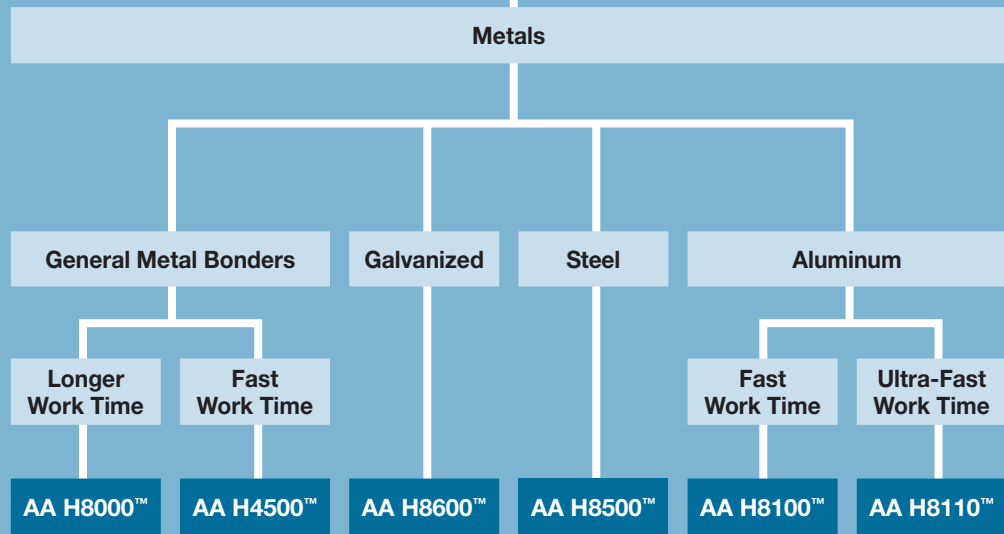
# Two-Part Acrylic Adhesives



## Your Application

- Specially formulated to provide tough, long-lasting bonds to most surfaces, including steel, galvanized steel, aluminum, sheet metal, stainless steel, plastics and composites
- Capable of reducing or replacing the need for threaded fasteners, welds or rivets, resulting in a lower cost assembly

## ARE YOU BONDING METALS OR PLASTICS/COMPOSITES?



## Solution

	AA H8000™	AA H4500™	AA H8600™	AA H8500™	AA H8100™	AA H8110™
<b>Color</b>	Green	Grey	Blue	Grey	Green	Yellow
<b>Viscosity (cP)</b>	190,000	45,000	86,000	60,000	185,000	200,000
<b>Mix Ratio</b>	10:1	10:1	2:1	10:1	10:1	10:1
<b>Work Time† (min.)</b>	30	15	25	25	15	7
<b>Shear Strength¹ (psi)</b>	3,140³	3,100	3,355	3,380	3,090³	2,475³
<b>Impact Strength⁵ (J)</b>	23	12	10	14	2³	10³
<b>Peel Strength¹ (pli)</b>	45	58	35⁴	92	45	48³

## Product Description

### LOCTITE® AA H8000™ Adhesive

#### Tough Metal Bonder

Exhibits excellent peel strength on multiple substrates, especially aluminum.

P/N	Package Size
996453	50 ml dual cartridge
36160	490 ml dual cartridge
35939*	35 lb. pail, adhesive
35940*	45 lb. pail, activator

### LOCTITE® AA H4500™ Adhesive

#### Fast Work Time

High strength structural adhesive for metals. Fixtures in 15 minutes. With color mix indication.

P/N	Package Size
2061020	50 ml dual cartridge
2060848	490 ml dual cartridge

### LOCTITE® AA H8600™ Adhesive

#### Galvanized Steel Bonder

Excellent shear strength on steel and aluminum. Especially designed for severe environments.

P/N	Package Size
2060835	400 ml dual cartridge
2057196*	5 gallon pail, adhesive
38761*	5 gallon pail, activator

### LOCTITE® AA H8500™ Adhesive

#### Ultra-Tough Steel Bonder

Excellent peel strength on steel and aluminum. Contains 30 mil spacer beads to prevent excessive squeeze-out of adhesive due to over-clamping.

P/N	Package Size
2069980	490 ml dual cartridge
40888*	5 gallon pail, activator
2069982*	5 gallon pail, adhesive

### LOCTITE® AA H8100™ Adhesive

#### Aluminum Bonder

Exhibits excellent strength on aluminum.

P/N	Package Size
1056942	50 ml dual cartridge
1056943	490 ml dual cartridge

### LOCTITE® AA H8110™ Adhesive

#### Ultra-Fast Aluminum Bonder

Aluminum bonder fixtures in 5 minutes.

P/N	Package Size
1371355	50 ml dual cartridge
1371361	490 ml dual cartridge

\* Made-to-order item.

† Working time = maximum time before assembly of parts to ensure proper wetting.

¹ Steel.

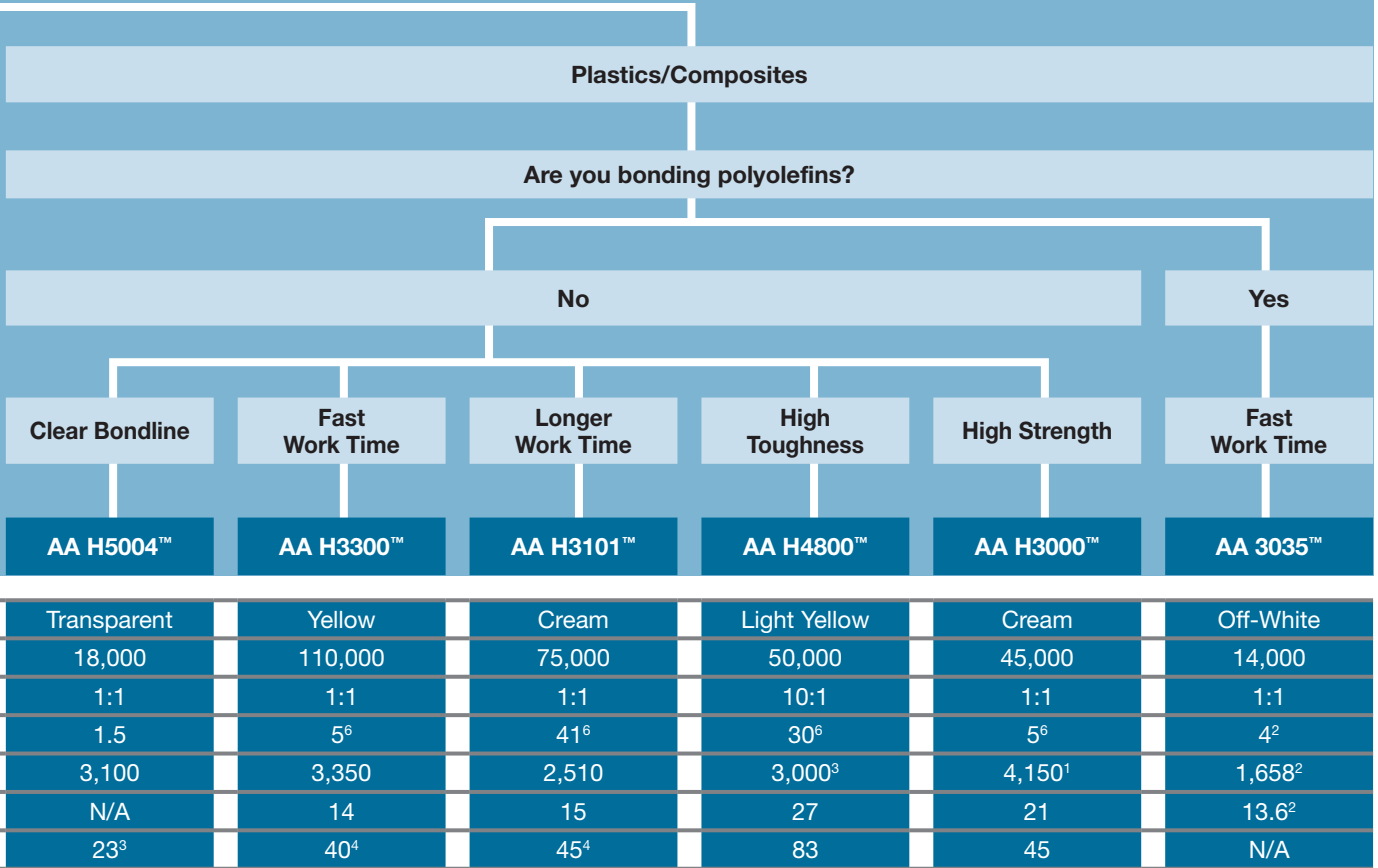
² High density polyethylene.

³ Aluminum.

⁴ Galvanized steel.

⁵ Grit-blasted mild steel.

⁶ Polyethylene.



**LOCTITE® AA H5004™ Adhesive**

**Clear Bondline**

A fast setting, toughened adhesive for metals and plastics that creates a virtually transparent bondline.

P/N	Package Size
1384596	50 ml dual cartridge

**LOCTITE® AA H3300™ Adhesive**

**Fast Fixture**

A non-sag, fast fixturing structural adhesive for bonding a variety of substrates.

P/N	Package Size
83020	50 ml dual cartridge
83019	400 ml dual cartridge
83024*	40 lb. pail, adhesive
83022*	40 lb. pail, activator

**LOCTITE® AA H3101™ Adhesive**

**Extended Work Life**

A medium viscosity structural adhesive ideal for bonding a variety of substrates.

**NSF/ANSI 61 Certified.**

P/N	Package Size
2018435	50 ml dual cartridge
2018429	400 ml dual cartridge

**LOCTITE® AA H4800™ Adhesive**

**Toughened**

Excellent peel and impact resistance. Provides high bond strengths on composites.

P/N	Package Size
2060831	50 ml dual cartridge
2061246	490 ml dual cartridge

**LOCTITE® AA H3000™ Adhesive**

**High Strength**

A low viscosity adhesive which exhibits high bond strength on a variety of substrates.

P/N	Package Size
83001	50 ml dual cartridge
83000	400 ml dual cartridge

**LOCTITE® AA 3035™ Adhesive**

**Fast Fixture**

A fast fixturing acrylic adhesive designed to bond low energy plastic substrates without any surface preparation.

P/N	Package Size
1677288	50 ml dual cartridge

# Two-Part Acrylic Adhesives



## LOCTITE® Two-Part Acrylic Adhesive Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	MIX RATIO	WORK TIME <sup>2</sup> (min.)	SHEAR STRENGTH <sup>1</sup> (psi)	IMPACT STRENGTH <sup>6</sup> (joules)	PEEL STRENGTH <sup>1</sup> (pli)
<b>AA H3151™</b>	2025105 2020048	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Extended Work Life	Light Yellow	70,000	1:1	N/A	3,800	N/A	N/A
<b>AA H4500™</b>	2061020 2060848	50 ml "S" dual cartridge 490 ml "F" dual cartridge	Fast Work Time	Grey	45,000	10:1	15	3,100	12	58
<b>AA H8000™</b>	996453 36160 35939* 35940*	50 ml "S" dual cartridge 490 ml "F" dual cartridge 35 lb. pail, adhesive 45 lb. pail, activator	Longer Work Time	Green	190,000	10:1	30	2,800 4,180 <sup>3</sup>	45	45
<b>AA H8010™</b>	40594*	490 ml "F" dual cartridge	Gap Control	Grey	200,000	10:1	35	2,175	29	89
<b>AA H8100™</b>	1056942 1056943	50 ml "S" dual cartridge 490 ml "F" dual cartridge	Fast Work Time	Green	190,000	10:1	15	2,880 3,090 <sup>3</sup>	11	45
<b>AA H8110™</b>	1371355 1371361	50 ml "S" dual cartridge 490 ml "F" dual cartridge	Ultra-Fast Work Time	Yellow	200,000	10:1	7	1,500	10 <sup>3</sup>	48 <sup>3</sup>
<b>AA H8500™</b>	2069980 40888* 2069982*	490 ml "F" dual cartridge 5 gallon pail, activator 5 gallon pail, adhesive	Fast Work Time	Grey	60,000	10:1	25	2,175 2,180 <sup>3</sup>	14	92
<b>AA H8510™</b>	2069983	490 ml "F" dual cartridge	Extended Work Time	Grey	45,000	10:1	30	2,175 1,900 <sup>3</sup>	>14	104
<b>AA H8600™</b>	2060835 2057196* 38761*	400 ml "F" dual cartridge 5 gallon pail, adhesive 5 gallon pail, activator	Medium Work Time	Blue	86,000	2:1	25	≥1,800 <sup>4</sup>	10	35 <sup>4</sup>
<b>AA H8610™</b>	2057561	400 ml "F" dual cartridge	Fast Work Time	Off-White	105,000	2:1	11	1,800 4,180 <sup>4</sup>	>14	55
<b>AA H8700™</b>	2060847 2060839	50 ml "B" dual cartridge 400 ml "F" dual cartridge	Paint-Bake Compatible	Blue	40,000	2:1	40	2,175 2,870 <sup>3</sup>	14	34
<b>AA 3035™</b>	1677288	50 ml "B" dual cartridge	Fast Fixture Time	Off-White	14,000	1:1	4 <sup>2</sup>	1,658 <sup>2</sup>	13.6 <sup>^2</sup>	N/A
<b>AA H3000™</b>	83001 83000	50 ml "A" dual cartridge 400 ml "C" dual cartridge	High Strength	Cream	45,000	1:1	5 <sup>7</sup>	4,150	21	45
<b>AA H3101™</b>	2018435 2018429	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Medium Work Time	Cream	75,000	1:1	41 <sup>7</sup>	2,510	15	35
<b>AA H3300™</b>	83020 83019 83024* 83022*	50 ml "A" dual cartridge 400 ml "C" dual cartridge 40 lb. pail, adhesive 40 lb. pail, activator	Fast Work Time	Yellow	110,000	1:1	5 <sup>7</sup>	3,350	14	40 <sup>4</sup>
<b>AA H4000™</b>	83025	490 ml "F" dual cartridge	Non-Sag	Pale Yellow	130,000	10:1	30	2,200 <sup>3</sup>	10	49
<b>AA H4100™</b>	83032	490 ml "F" dual cartridge	Ultra-Fast Work Time	Pale Yellow	100,000	10:1	N/A	3,140	N/A	5
<b>AA H4200™</b>	83038	490 ml "F" dual cartridge	Fast Work Time	Pale Yellow	90,000	10:1	9	4,020	>29	76
<b>AA H4800™</b>	2060831 2061246	50 ml "S" dual cartridge 490 ml "F" dual cartridge	Impact Resistant	Light Yellow	50,000	10:1	30	3,930	27	83
<b>AA H5004™</b>	1384596	50 ml "A" dual cartridge	Clear, Fast Work Time	Transparent	18,000	1:1	1.5	3,100	N/A	23

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.  
<sup>1</sup> Steel.

<sup>2</sup> HDPE.  
<sup>3</sup> Aluminum.  
<sup>4</sup> Galvanized steel.

<sup>5</sup> Working time = maximum time before assembly.  
<sup>6</sup> Grit-blasted steel.  
<sup>7</sup> Polyethylene.



# Two-Part Acrylic Adhesive Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



### LOCTITE® PRODUCT

ADHESIVE PACKAGE TYPE/SIZE	HANDHELD APPLICATORS	DISPENSER ITEM NUMBER	EQUIPMENT TYPE	VISCOSITY RANGE	MIX RATIOS	RECOMMENDED MIX NOZZLE ITEM NUMBER	PIECES PER PACK
<b>TWO-PART DISPENSING</b>							
50 ML "A" DUAL CARTRIDGE		98472	Manual	Low to High	1:1, 1:2, 2:1	98455	10
		97042	Pneumatic	Low to High	1:1, 1:2, 2:1	98455	10
50 ML "B" DUAL CARTRIDGE		98472	Manual	Low to High	1:1, 2:1	1573149	10
		97042	Pneumatic	Low to High	1:1, 2:1	1573149	10
50 ML "S" DUAL CARTRIDGE		1034026	Manual	Low to High	10:1	1034575	10
		1493310	Pneumatic	Low to High	10:1	1034575	10
400 ML "C" DUAL CARTRIDGE		983438	Manual	High to Paste	1:1, 2:1	720174	10
		983439	Pneumatic	High to Paste	1:1, 2:1	720174	10
400 ML "F" DUAL CARTRIDGE		983438	Manual	High to Paste	1:1, 2:1	1573138	10
		984211	Conversion Kit (Manual)	High to Paste	4:1	720177	10
400 ML "F" DUAL CARTRIDGE		983439	Pneumatic	High to Paste	1:1, 2:1	1573138	10
		984210	Conversion Kit (Pneumatic)	High to Paste	4:1	720177	10
490 ML "F" DUAL CARTRIDGE		985246	Manual	High to Paste	10:1	1084092	10
		985249	Pneumatic	High to Paste	10:1	1084092	10

### MIX NOZZLES

Plastic, disposable nozzles that attach directly to LOCTITE® dual cartridges. They are designed to mix adhesive automatically as it travels through the static-mix nozzle.

See pages 176-178 for more LOCTITE® Mix Nozzles or visit [www.equipment.loctite.com](http://www.equipment.loctite.com).



ADDITIONAL RESOURCES

**EQUIPMENT** – Henkel is a full-service supplier of LOCTITE® branded equipment and offers a wide variety of equipment services to its customers. For more LOCTITE® branded equipment, go to page 163.

Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or call 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*

# Epoxy Adhesives



## Your Application

- Bond a wide variety of materials, such as metal, ceramic and plastic
- Available in a variety of formulations and performance capabilities, including fast cure, superior moisture resistance, ease of dispense, high toughness, and a resistance to a wide range of chemicals

### DO YOU NEED A ONE-PART OR TWO-PART EPOXY?

#### Two-Part

#### Do you need the product to fixture in less than 15 minutes at room temperature?

#### Yes

#### No

#### Potting (for more potting options, see page 97)

#### Moisture Resistant

#### Flexible

#### Non-Sag

#### Clear

#### Explosion Proof

#### Non-Corrosive

## Solution

EA E-05MR™

EA E-05CL™

EA E-00NS™

EA E-30CL™

EA E-40EXP™

EA E-60NC™

	EA E-05MR™	EA E-05CL™	EA E-00NS™	EA E-30CL™	EA E-40EXP™	EA E-60NC™
<b>Color</b>	Clear	Clear	Translucent	Clear	Black	Black
<b>Viscosity (cP)</b>	25,000	2,500	100,000	10,000	24,000	8,000
<b>Mix Ratio</b>	1:1	1:1	1:1	2:1	2:1	1:1
<b>Work Life (minutes)</b>	5	5	3	30	40	60
<b>Fixture Time (minutes)</b>	15	15	10	>180	N/A	180
<b>Room Temperature Cure Time (hours)</b>	24	24	24	24	24	24
<b>Shear Strength<sup>1</sup> (psi)</b>	3,360	1,430	1,600	3,100	3,000 <sup>2</sup>	2,630
<b>Temperature Resistance</b>	250°F (121°C)	180°F (80°C)	180°F (82°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)

## Product Description

### LOCTITE® EA E-05MR™ Adhesive

**Moisture Resistant**  
Clear, fast fixturing epoxy that provides excellent moisture resistance and exceptional toughness.

P/N	Package Size
1086598	50 ml dual cartridge
1086599*	400 ml dual cartridge
1087602*	5 gallon pail, resin
1087603*	5 gallon pail, hardener

### LOCTITE® EA E-05CL™ Adhesive

**Flexible**  
A clear, flexible, high peel, low odor epoxy with a 3-minute work life.

P/N	Package Size
29299	50 ml dual cartridge
29301	400 ml dual cartridge
29302*	46 lb. pail
29303*	46 lb. pail

### LOCTITE® EA E-00NS™ Adhesive

**Non-Sag**  
A fast fixturing, thixotropic, non-sag epoxy which cures at room temperature to form a translucent, rigid and machinable bondline. Well suited for use on vertical surfaces.

P/N	Package Size
29294	50 ml dual cartridge
29295	200 ml dual cartridge
29296	400 ml dual cartridge

### LOCTITE® EA E-30CL™ Adhesive

**Clear**  
An ultra-clear, low viscosity, impact resistant epoxy with a 30-minute work life. An excellent glass bonder. Exhibits exceptional chemical resistance.

P/N	Package Size
29329	50 ml dual cartridge
29330	200 ml dual cartridge
29331	400 ml dual cartridge

### LOCTITE® EA E-40EXP™ Adhesive

**Explosion Proof/ Chemical Resistant**  
An epoxy designed for potting electrical motors used in hazardous locations. Compliant with UL-674 for explosion-proof electric motors. Excellent chemical resistance.

P/N	Package Size
1511653	200 ml dual cartridge
1511896	5 gallon pail - part A
1511897	5 gallon pail - part B

### LOCTITE® EA E-60NC™ Adhesive

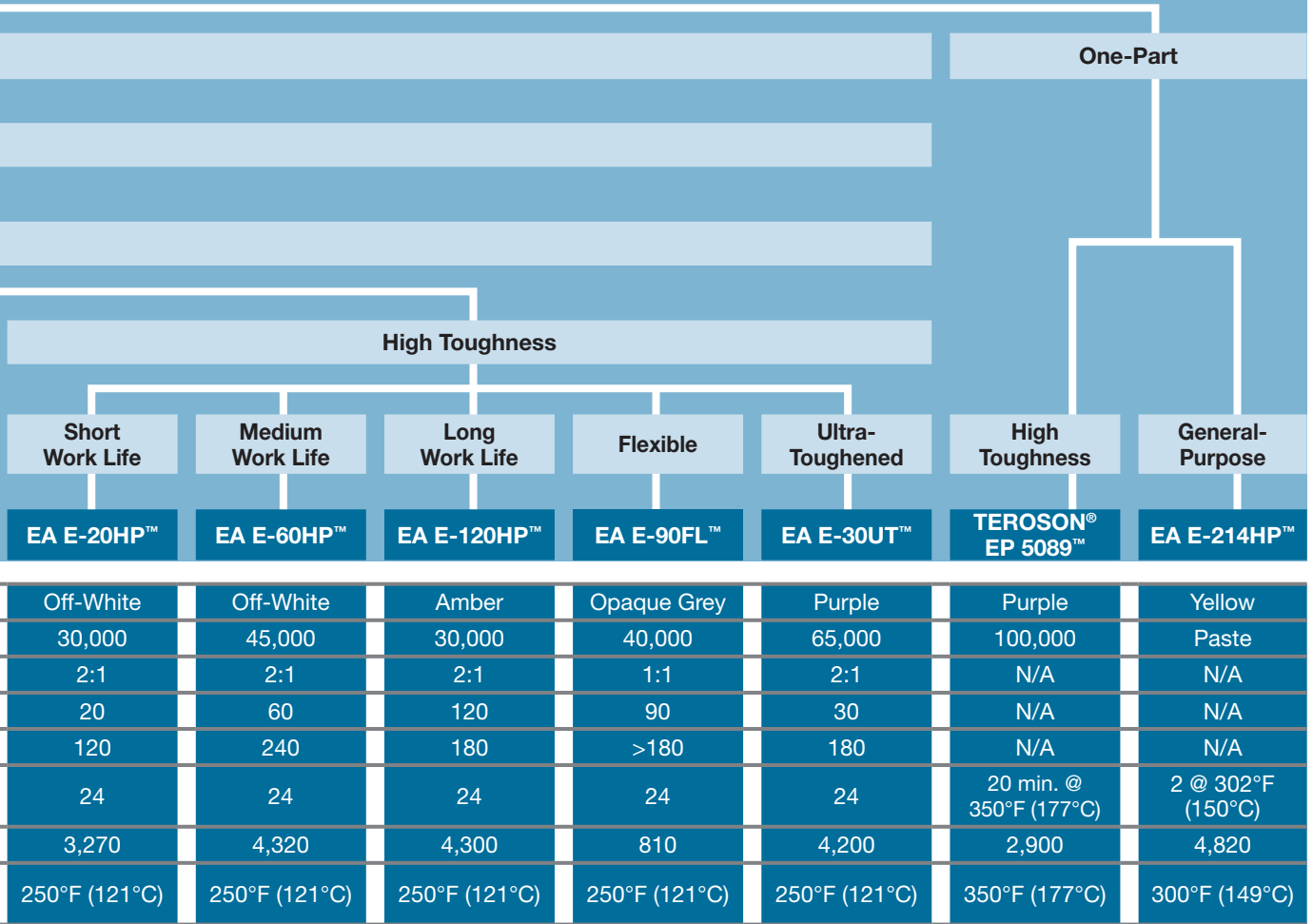
**Noncorrosive/ Potting**  
An electronics-grade potting compound with a 60-minute work life. Black, opaque, low viscosity with excellent cure-through depth.

P/N	Package Size
29324	50 ml dual cartridge
29325	200 ml dual cartridge
29326	400 ml dual cartridge
29327*	47 lb. pail, resin
29328*	40 lb. pail, hardener

\* Made-to-order item.

<sup>1</sup> Grit blasted steel.

<sup>2</sup> Aluminum.



**LOCTITE® EA E-20HP™ Adhesive**

**High Performance**

A high strength epoxy with a 20-minute work life. Off-white, toughened, high peel, high shear.

P/N	Package Size
29314	50 ml dual cartridge
29315	200 ml dual cartridge
29316	400 ml dual cartridge
29317	46.5 lb. pail, resin
29318	48 lb. pail, hardener

**LOCTITE® EA E-60HP™ Adhesive**

A high strength epoxy with a 60-minute work life. Off-white, high peel, high shear.

P/N	Package Size
29319	50 ml dual cartridge
29321	400 ml dual cartridge
29322*	43 lb. pail, resin
29323*	42 lb. pail, hardener

**LOCTITE® EA E-120HP™ Adhesive**

An amber, non-sag, aerospace grade epoxy with an extended open time to allow for the adjustment of large parts.

P/N	Package Size
29353	50 ml dual cartridge
29354	200 ml dual cartridge
29355	400 ml dual cartridge
29356*	44 lb. pail, resin
29357*	40 lb. pail, hardener

**LOCTITE® EA E-90FL™ Adhesive**

**Flexible**

A grey, impact-resistant, toughened epoxy with a 90-minute work life.

P/N	Package Size
29309	50 ml dual cartridge
29311	400 ml dual cartridge

**LOCTITE® EA E-30UT™ Adhesive**

**Ultra-Tough**

An epoxy that provides exceptional fracture toughness characteristics for the most demanding structural bonding requirements.

P/N	Package Size
1078234	50 ml dual cartridge

**TEROSON® EP 5089™ Adhesive**

**High Performance**

A toughened heat curable epoxy offering high shear strength and extremely good peel and impact resistance. Can be spot-welded through and is compatible with most paint bake processes.

P/N	Package Size
1182757	300 ml cartridge
1182761	5 gal. pail
1182927	55 gal. drum

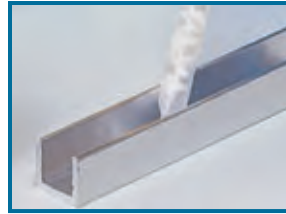
**LOCTITE® EA E-214HP™ Adhesive**

**General-Purpose/Heat Cure**

A one-component, acid-free, heat cure epoxy. Light grey, temperature resistant, high strength, non-sag. Noncorrosive to sensitive parts.

P/N	Package Size
29339	30 ml cartridge
29340	300 ml cartridge

# Epoxy Adhesives



## LOCTITE® Epoxy Adhesive Properties Chart

43

Structural Bonding

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	MIX RATIO	WORK LIFE <sup>3</sup> (minutes)	FIXTURE TIME (minutes)	CURE TIME (hours)	SHEAR STRENGTH <sup>1</sup> (psi)	TEMPERATURE RESISTANCE
EA 1C™	1373425 1377344 1377777 1377391	EPK 4 oz. kit 17 lb. kit 60 lb. pail, resin 43 lb. pail, hardener	Gap Filling	Off-White	350,000	2.5:1	20	210	24	1,500 <sup>2</sup>	250°F (121°C)
EA 0151™	83176 83069 83179	EPK 3.3 oz. kit 50 ml "A" dual cartridge 2.6 lb. kit	Extended Work Life	Clear	60,000	2.7:1	60	>180	24	2,675	160°F (71°C)
EA 9340™	83104 83105	EPK 2.7 oz. kit 5 lb. kit	Non-Sag	Grey	Paste	1:1	90	>180	24	2,300 <sup>2</sup>	>180°F (82°C)
EA 9430™	83114 83113	2 lb. kit 10 lb. kit	Impact Resistant	Off-White	12,000	3.78:1	50	>180	24	4,230	180°F (82°C)
EA 9460™	83129 83128 83127 83131 83130 83133 83134	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 5 lb. kit 20 lb. kit 50 lb. pail, hardener 50 lb. pail, resin	Non-Sag	Grey	200,000	1:1	50	>180	24	3,500 <sup>4</sup>	250°F (121°C)
EA 9462™	83142	50 ml "A" dual cartridge	High Strength	Beige	70,000	1:1	55	>180	24	4,180	250°F (121°C)
<b>EA E-20HP™</b>	29314 29315 29316 29317 29318	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 46.5 lb. pail, resin 48 lb. pail, hardener	Easy Mix, Toughened	Off-White	30,000	2:1	20	120	24	3,270	250°F (121°C)
EA E-20NS™	29334 29335 29336	50 ml "A" cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Low Sag	Tan	60,000	2:1	20	150	24	2,790	250°F (121°C)
EA E-30CL™	29329 29330 29331	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Medium Work Life, Chemical Resistant	Clear	10,000	2:1	30	>180	24	3,100	250°F (121°C)
EA E-30UT™	1078234	50 ml "A" dual cartridge	Ultra-Tough	Purple	65,000	2:1	30	180	24	4,200	250°F (121°C)
EA E-40EXP™	1511653 1511896 1511897	200 ml "C" dual cartridge 5 gallon pail, part A 5 gallon pail, part B	Extended Work Life	Black	24,000	2:1	40	N/A	24	3,000	250°F (121°C)
EA E-40FL™	29304 29305 29306	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Medium Fixture	Opaque Grey	70,000	1:1	40	180	24	640	250°F (121°C)
EA E-40HT™	1086065 1086081	50 ml "A" dual cartridge 400 ml "C" dual cartridge	High Strength	Off-White	430,000	2:1	40	180	24	4,030	300°F (149°C)
EA E-60HP™	29319 29321 29322* 29323*	50 ml "A" dual cartridge 400 ml "C" dual cartridge 43 lb. pail, resin 42 lb. pail, hardener	High Performance	Off-White	45,000	2:1	60	>180	24	4,320	250°F (121°C)
EA E-60NC™	29324 29325 29326 29327* 29328*	50 ml "A" dual cartridge 200 ml dual cartridge 400 ml "C" dual cartridge 47 lb. pail, resin 40 lb. pail, hardener	Extended Work Life, Noncorrosive	Black	8,000	1:1	60	>180	24	2,630	250°F (121°C)
EA E-90FL™	29309 29311	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Extended Work Life	Opaque Grey	40,000	1:1	90	>180	24	810	250°F (121°C)
EA E-120HP™	29353 29354 29355 29356* 29357*	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge 44 lb. pail, resin 40 lb. pail, hardener	High Temperature/ Chemically Resistant	Amber	30,000	2:1	120	>180	24	4,300	N/A

HIGH PERFORMANCE

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.  
1 Grit-blasted steel.  
2 Etched aluminum.

<sup>3</sup> Work life = time for viscosity to double; Working time = maximum time before assembly (steel).  
<sup>4</sup> Block Shear – grit-blasted mild steel.

# LOCTITE® Epoxy Adhesive Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	MIX RATIO	WORK LIFE <sup>3</sup> (minutes)	FIXTURE TIME (minutes)	CURE TIME (hours)	SHEAR STRENGTH <sup>1</sup> (psi)	TEMPERATURE RESISTANCE	
FAST FIXTURE	EA 608™	83086 83075	4 g foil pack 50 ml "A" dual cartridge	Fast Fixture, Non-Sag	Clear	100,000	1:1	5	15	24	2,980	130°F (54°C)
	EA 615™	83094	EPK 3.2 oz. kit	Fast Fixture	Light Blue	200,000	1:1	10	25	24	3,825	180°F (82°C)
	EA E-00CL™	29289 29290 29291	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Fast Fixture, Flowable	Clear	10,000	1:1	3.5	15	24	2,160	180°F (82°C)
	EA E-00NS™	29294 29295 29296	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	Fast Fixture, Low Odor	Translucent	100,000	1:1	3	15	24	1,600	180°F (82°C)
	EA E-05CL™	29299 29301 29302* 29303*	50 ml "A" dual cartridge 400 ml "C" dual cartridge 46 lb. pail, resin 46 lb. pail, hardener	Fast Fixture	Clear	2,500	1:1	3	30	24	1,430	180°F (80°C)
	EA E-05MR™	1086598 1086599*	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Moisture- Resistant	Ultra-Clear	25,000	1:1	5	15	24	3,380	250°F (121°C)
ONE-PART	EA 3982™	36767	30 ml syringe	Fluorescent, Heat Cure	Off-White	8,000	N/A	N/A	N/A	0.5 @ 257°F (125°C)	5,830 <sup>4</sup>	250°F (121°C)
	EA 3985™	40870 34731*	1 liter bottle 50 lb. pail	Non-Sag, Heat Cure	Black	50,000	N/A	N/A	N/A	0.5 @ 272°F (133°C)	N/A	300°F (149°C)
	TEROSON® EP 5089™	1182757 1182761 1182927	300 ml cartridge 5 gallon pail 55 gallon drum	High Performance	Purple	100,000	N/A	N/A	N/A	20 min. @ 350°F (177°C)	2,900	350°F (177°C)
	EA 9432NA™	83217* 83216*	2 lb. can 55 lb. pail	High Temperature	Grey	225,000	N/A	N/A	N/A	1 @ 248°F (120°C)	2,850	300°F (149°C)
	EA E-214HP™	29339 29340	30 ml cartridge 300 ml cartridge	High Strength	Grey	Paste	N/A	N/A	N/A	0.66 @ 248°F (120°C)	4,820	300°F (149°C)
	EA E-910™	1501093	5 gallon pail	Low Cure Temperature, Fast Fixture	Green	40,000	N/A	N/A	N/A	1 @ 176°F (80°C)	2,000 <sup>2</sup>	300°F (149°C)

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.  
<sup>1</sup> Grit-blasted steel.  
<sup>2</sup> Aluminum.



<sup>3</sup> Work life = time for viscosity to double; Working time = maximum time before assembly (steel).  
<sup>4</sup> Block Sheer – grit-blasted mild steel.





# Epoxy Adhesive Equipment



## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT	ITEM NUMBERS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	CONSUMABLES – DISPENSE ACCESSORIES	
<b>SYRINGE DISPENSING – SIMPLE MANUAL DISPENSERS FOR LOW VOLUME SYRINGE APPLICATIONS</b>						
	<b>30 ML MANUAL SYRINGE APPLICATOR</b>	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175 Syringe Accessories – Pages 179-180
	<b>10/30 ML SYRINGE MANUAL PLUNGERS</b>	98192	Any fluid in a 10 ml syringe	10 ml syringe (3 pack)	Low to High	N/A
		98193	Any fluid in a 30 ml syringe	30 ml syringe (3 pack)		

LOCTITE® PRODUCT	ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES		
<b>PNEUMATIC CARTRIDGE DISPENSING</b>									
<b>DISPENSE SYSTEMS</b>		<b>300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER</b>	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges	Low to Medium	No	Cartridge Accessories – Page 175
		<b>300 ML CARTRIDGE PUSHER</b>	98022	0 to 50 psi	Gel Adhesives, Anaerobic Gasketing, Light Cure Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes	
		<b>HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER</b>	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	
		<b>HIGH PRESSURE 300 ML BENCHTOP CARTRIDGE DISPENSER</b>	1046901	0 to 725 psi	Silicone, Polyurethane, MS Polymer Adhesives	290 ml cartridges 300 ml cartridges 310 ml cartridges	10,000 to 1,000,000	Yes	

LOCTITE® PRODUCT	ITEM NUMBERS	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
<b>HIGH VISCOSITY FLUID AND PASTE VALVES</b>									
	<b>VA26 DISPENSE VALVE – 50 BAR</b>	1960414	High Viscosity Fluid and Paste Valves	10,000 to 1,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
	<b>HIGH PRESSURE DISPENSE VALVE – 150 BAR</b>	1153502		500,000 to 2,000,000 cP				No	

ITEMS IN RED = Source's PICK or NEW

**MIX NOZZLES**

Plastic, disposable nozzles that attach directly to LOCTITE® dual cartridges. They are designed to mix adhesive automatically as it travels through the static-mix nozzle.

See pages 176-178 for more LOCTITE® Mix Nozzles or visit [www.equipment.loctite.com](http://www.equipment.loctite.com).



ADDITIONAL RESOURCES



LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPE & SIZES	MIX RATIOS	VISCOSITY RANGE	TYPE	CONSUMABLES – DISPENSE ACCESSORIES
<b>TWO-PART DISPENSING</b>								
<b>HANDHELD APPLICATORS</b>		98472	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	1:1, 2:1, 4:1	Low to High	Manual	Static Mix Nozzles & Accessories – Pages 176-178
		1034026		S-50 dual cartridge	10:1			
		97042	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	1:1, 2:1	Low to High	Pneumatic	
		1493310	Two-Component Epoxies, Urethanes, Methacrylates, 10:1 ratio	50 ml dual cartridge	10:1	Low to High	Pneumatic	
		983436	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge	1:1, 2:1	High to Paste	Manual	
		983438		400 ml dual cartridge	1:1, 2:1			
		985246		490 ml dual cartridge	10:1			
		983437	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge	1:1, 2:1	High to Paste	Pneumatic	
983439		400 ml dual cartridge		1:1, 2:1				
985249		490 ml dual cartridge		10:1				
	1500890	Two-Component Epoxies, Urethanes, Methacrylates	400 ml dual cartridge	1:1, 2:1	High	Pneumatic		
	1093940	Henkel Construction Adhesives, Caulking products in 10 oz. caulking tubes	300 ml cartridges	All 300 ml caulking style ratios	Medium to High	Manual		
	1372751	Two-Component Epoxies, Urethanes, Methacrylates	200 ml/400 ml dual cartridges	1:1, 2:1, 4:1, 10:1	High to Paste	Manual		

ITEMS IN RED = Source's PICK or NEW

**EQUIPMENT** – Henkel is a full-service supplier of LOCTITE® branded equipment and offers a wide variety of equipment services to its customers. For more LOCTITE® branded equipment, go to page 163.

Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or call 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*

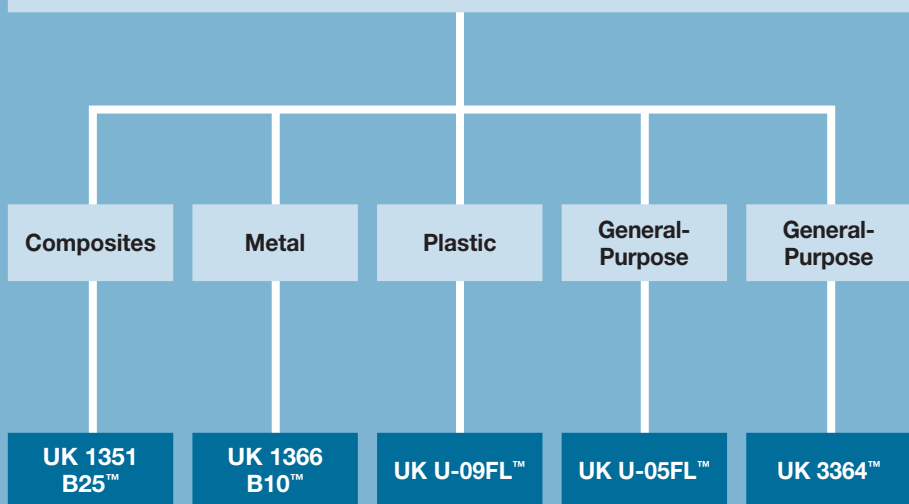
# Polyurethane Adhesives



## Your Application

- Bond a wide variety of materials, including most metals, plastics and composites
- Exhibit superior moisture and humidity resistance, as well as good toughness and flexibility

## WHAT ARE YOU BONDING?



## Solution

	UK 1351 B25™	UK 1366 B10™	UK U-09FL™	UK U-05FL™	UK 3364™
<b>Color</b>	Green	Green	Clear	Off-White	Black
<b>Viscosity (cP)</b>	29,000	34,000	5,000	100,000	5,000
<b>Mix Ratio</b>	2:1	4:1	1:1	1:2	1:2
<b>Work Life (mins.)</b>	50	30	10	5	5
<b>Fixture Time (mins.)</b>	75	35	120	180	30
<b>Cure Time (hrs.)</b>	72	72	72	72	72
<b>Shear Strength** (psi)</b>	2,360	1,550	1,460	930†	2,800†

## Product Description

**LOCTITE® UK 1351 B25™ Urethane Adhesive**  
*Composite Bonder*

A highly toughened, GL approved two-part urethane for composites bonding. Non-sag with excellent fatigue and environmental resistance.

**P/N Package Size**  
1667557 400 ml cartridge

**LOCTITE® UK 1366 B10™ Urethane Adhesive**  
*Metal Bonder*

A highly flexible, medium fixture structural bonder that has good adhesion to metals and plastics. Excellent environmental resistance and impact strength.

**P/N Package Size**  
1668032 415 ml cartridge

**LOCTITE® UK U-09FL™ Adhesive**  
*Plastic Bonder*

A two-part, high performance urethane adhesive for plastic bonding with a 10-minute work life. Clear, impact resistant, high peel.

**P/N Package Size**  
29460 50 ml dual cartridge  
29462\* 400 ml dual cartridge

**LOCTITE® UK U-05FL™ Adhesive**  
*General-Purpose*

A high performance urethane adhesive for general-purpose metal bonding with a 5-minute work life. Off-white, highly flexible, impact and moisture resistant, high peel, high shear.

**P/N Package Size**  
29348 50 ml dual cartridge  
29349 200 ml dual cartridge  
29350 400 ml dual cartridge

**LOCTITE® UK 3364™ Adhesive**  
*General-Purpose*

A fast fixturing, flame resistant, general-purpose polyurethane suitable for bonding or potting. It carries a UL® 94V-0 rating for flame resistance.

**P/N Package Size**  
1166733 50 ml dual cartridge

\* Made-to-order item.  
\*\* Steel.  
† Grit-blasted steel.










# LOCTITE® Polyurethane Adhesive Properties Chart

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURES	COLOR	VISCOSITY (cP)	MIX RATIO	WORK LIFE (minutes)	FIXTURE TIME (minutes)	CURE TIME (hours)	SHEAR STRENGTH** (psi)
COMPOSITES	UK 1351 B25™	1667557	400 ml cartridge	Toughened Composite Bonder, GL Approved	Green	29,000	2:1	50	75	72	2,360
	UK 1366 B10™	1668032	415 ml cartridge	Metal Bonder, Flexible	Green	34,000	4:1	30	35	72	1,550
METAL	UK U-09FL™	29460 29462*	50 ml "A" dual cartridge 400 ml "C" dual cartridge	Plastic Bonder, Flexible	Clear	5,000	1:1	10	120	72	1,460
	UK U-09LV™	38588	50 ml "A" dual cartridge	Low Viscosity, Medium Work Life	Clear	1,000	1:1	10	>180	72	1,146†
PLASTIC	UK U-05FL™	29348 29349 29350	50 ml "A" dual cartridge 200 ml "C" dual cartridge 400 ml "C" dual cartridge	General-Purpose, Flexible	Off-White	100,000	1:2	5	160	72	930†
	UK 3364™	1166733	50 ml "A" dual cartridge	General-Purpose, Flame Resistant	Black	5,000	1:2	5	30	72	2,800†

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	EXTRUSION RATE (G MIN)	CURE METHOD	SKIN TIME (MIN)	TEMP. RANGE	SHORE HARDNESS	TENSILE STRENGTH (PSI)	ELONGATION AT BREAK (%)	SHEAR STRENGTH ON STEEL (PSI)
GENERAL PURPOSE	UR 3370™	1535077 1538161 1552178 1552179 1535036 1675274 1550218* 1550231* 1535076 1538160 1550213 1548600 1552177	300 ml cartridge 20 oz. sausage 5 gallon pail 485 lb. drum 300 ml cartridge 20 oz. sausage 5 gallon pail 485 lb. drum 300 ml cartridge 20 oz. sausage 5 gallon pail 485 lb. drum 29 oz. cartridge	White White White White Grey Grey Grey Grey Black Black Black Black Black	N/A	Moisture	30	-40°F (-40°C) to 200°F (93°C)	A 50	330	400	N/A
	UR 7001™	39916	10.2 oz. cartridge	Grey	NA	24 hours	Moisture	-40°F (-40°C) to 180°F (82.2°C)	33	200	1000	170

ITEMS IN RED = Source's PICK or NEW \* Made-to-order item. \*\* Steel. † Grit-blasted steel.

# Polyurethane Adhesive Equipment

LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPE & SIZES	MIX RATIOS	VISCOSITY RANGE	TYPE	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD APPLICATORS	TWO-PART DISPENSING								
		50 ML DUAL CARTRIDGE MANUAL APPLICATORS	98472	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	1:1, 2:1, 4:1	Low to High	Manual	Static Mix Nozzles & Accessories – Pages 176-178
			1034026		S-50 dual cartridge	10:1			
		50 ML DUAL CARTRIDGE PNEUMATIC APPLICATOR	97042	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	1:1, 2:1	Low to High	Pneumatic	
		50 ML S-STYLE DUAL CARTRIDGE PNEUMATIC APPLICATOR	1493310	Two-Component Epoxies, Urethanes, Methacrylates, 10:1 ratio	50 ml dual cartridge	10:1	Low to High	Pneumatic	
		200 ML/400 ML DUAL CARTRIDGE MANUAL APPLICATORS	983436	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge	1:1, 2:1	High to Paste	Manual	
			983438		400 ml dual cartridge	1:1, 2:1			
			985246		490 ml dual cartridge	10:1			
	200 ML/400 ML DUAL CARTRIDGE PNEUMATIC APPLICATORS	983437	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge	1:1, 2:1	High to Paste	Pneumatic		
		983439		400 ml dual cartridge	1:1, 2:1				
		985249		490 ml dual cartridge	10:1				
	400 ML DUAL CARTRIDGE PNEUMATIC APPLICATOR	1500890	Two-Component Epoxies, Urethanes, Methacrylates	400 ml dual cartridge	1:1, 2:1	High	Pneumatic		
	UNIVERSAL DISPENSER	1372751	Two-Component Epoxies, Urethanes, Methacrylates	200 ml/400 ml dual cartridges	1:1, 2:1, 4:1, 10:1	High to Paste	Manual		

ITEMS IN RED = Source's PICK or NEW

# Coatings



<b>49</b>	<b>COATINGS</b>
51	Protective Coatings
55	Wear-Resistant Coatings

## WHY USE LOCTITE® PROTECTIVE COATINGS?

Wear and corrosion are common causes for failure in industrial equipment. Often this equipment is very expensive and repairing and protecting these assets offers a significant cost savings. Surface treatments and protective coatings are the most effective solution for surface protection. LOCTITE® Wear-Resistant and Protective Coatings offer superior protection for new and worn equipment in a variety of applications. Extending service life and increasing efficiency through reduced friction are just two examples of the benefits of using protective coatings to safeguard your assets.

## TRADITIONAL METHODS VS. LOCTITE® MODERN SOLUTION

Traditional repair methods such as hard-face welding are time consuming and expensive. Alternatively, LOCTITE® Coatings are easily applied on all surfaces and offer superior compressive strength and protection qualities.

LOCTITE® Coatings can help you restore and rebuild a wide variety of worn parts and put them back in serviceable condition.

### WEAR-RESISTANT COATINGS TECHNICAL CATALOG AND BROCHURE

Let Henkel help you select the proper coating for your application.

Refer to LOCTITE® Nordbak® Wear-Resistant Coatings Technical Catalog and Brochure by visiting [www.henkelna.com/literature](http://www.henkelna.com/literature)

Go to **Select a Category** and choose **Industrial Coatings** from the drop-down menu. You may either view the guide or request copies.



ADDITIONAL RESOURCES

## KEY BENEFITS OF LOCTITE® PROTECTIVE COATINGS:

- Fast repair and easy application
- Restore worn surfaces and extend part life
- Make durable repairs right on product line
- Nonshrinking and non-sag formulations for large vertical applications
- May be drilled, tapped or machined after cure
- Excellent chemical resistance for effective protection of assemblies
- Protect against corrosion
- Can also be used to add gripping power or to color code tools

## WHAT IS THE PROPER SURFACE PREPARATION FOR WEAR-RESISTANT COATINGS?

A properly prepared surface is one that has been cleaned, dried and abraded. Substrates should be free from contamination, including oils, grease, dust, etc. It is also important that the surface is dry before working with a wear-resistant coating because moisture on the surface can interfere with the curing process. The final step is to abrade the surface to provide an increased surface area for bonding. When working with metals, the surface should be abraded to a near-white metal finish, which also helps to ensure that all surface corrosion is removed.

Henkel Adhesive and Sealant Product Specialists are available to assist you. For application assistance, call **1-800-LOCTITE (562-8483)**; *within Canada*, call **1-800-263-5043**; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



## **SURFACE RESTORATION MADE EASY!**

### **STOP RUST DEAD WITH LOCTITE® SF 754™ RUST TREATMENT**



**1** Brush or spray SF 754™ Rust Treatment onto any wire-brushed or sanded surface. Leave on some rust. SF 754™ Rust Treatment goes on white. Turns black in 10 minutes.



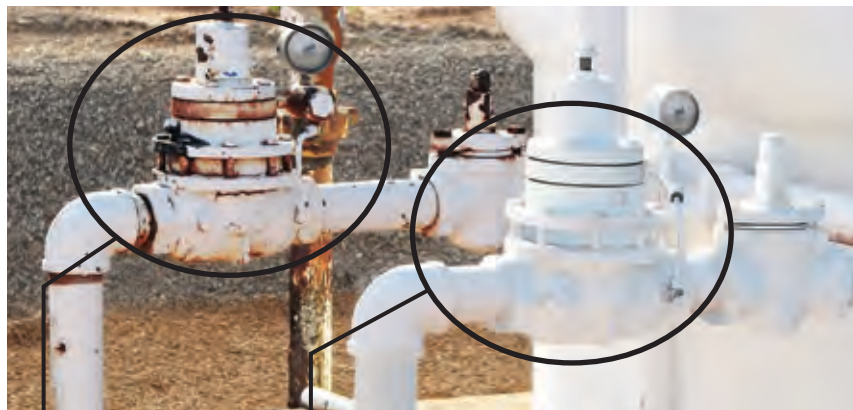
**3** 1 Year: Even under continuous high humidity, SF 754™ Rust Treatment still looks new.



**2** 6 Months: SF 754™ Rust Treatment continues to prevent rust even with constant water/salt spray contact.



**4** 18 Months Later: SF 754™ Rust Treatment still keeps old rust from coming back. Prevents new rust from starting.



**BEFORE**

**AFTER SF 754™ RUST TREATMENT AND FRESH PAINT**

## **PERFORMANCE CHARACTERISTICS**

SF 754™ Rust Treatment's unique capability makes it ideal for maintenance use in applications where sandblasting is not practical or economical. SF 754™ Rust Treatment gives a quality level of conversion and protection, especially when followed by conventional prime and/or finish coats. Most finish paints will not require any additional primer. However, light color latex and metal-filled paints require a solvent base primer on top of SF 754™ Rust Treatment coating before finish application.

SF 754™ Rust Treatment was tested for 100 hours at 95°F, condensing humidity, salt spray (ASTM B117-73), and satisfactory performance was obtained. This test is equivalent to two years of outdoor exposure. Protection is enhanced with SF 754™ Rust Treatment plus an overcoat such as epoxy, alkyd, urethane, or chlorinated rubber.

# Protective Coatings



## Your Application

- Protect, seal, insulate, prevent corrosion, add gripping power and color code tools
- Provide excellent resistance to acids, alkalis, salt and moisture, which can damage equipment

## SURFACE PROTECTION AND RUST PREVENTION

### Corrosion Protection

#### General-Purpose

#### Cathodic Protection

#### Undercoating

#### Non-Drying

#### Color Coding

SF 7693™

SF 7607™

PC 9660™

SF F720™

## Solution

Description	Zinc Spray	Rubberized Spray	Wax Film	Rubber Coating
Color	Grey	Black	Brown	Red, Yellow, Blue, Black
Temperature Range	Up to 400°F (204°C)	Up to 200°F (93°C)	Up to 200°F (93°C)	Up to 200°F (93°C)
Cure/Dry Time	15 min.	20 min.	N/A	4 hrs.

## Product Description

### LOCTITE® SF 7693™ Cold Galvanizing Compound

Sprays on metal surfaces to prevent corrosion even when the surface is scratched. Ideal touch-up for welded seams. Highly resistant to salt corrosion and water. Not resistant to acid or alkaline solutions. Contains no ozone-depleting compounds. Won't yellow, chalk or peel.

**P/N Package Size**  
82039 15 oz. net wt. aerosol

### LOCTITE® SF 7607™ Heavy-Duty Rubberized Undercoating

This heavy-duty undercoating seals, protects and insulates. Rubberized for maximum durability. Features abrasion resistance and sound-deadening properties.

**P/N Package Size**  
30538 16 oz. net wt. aerosol

### LOCTITE® PC 9660™ Heavy-Duty Rustproofing

Heavy-duty coating provides long-term protection for metal parts, equipment and machinery. Forms a protective, waxy film that seals out moisture, air, acid and other corrosive elements. Great for protecting parts in storage. Removable with LOCTITE® Electrical Contact Cleaner.

**P/N Package Size**  
51211 12 oz. net wt. aerosol  
51213 1 gallon can

### LOCTITE® SF F720™ Tough Rubber Coating

**Inhibits Rust and Corrosion, Seals, Insulates and Identifies**

A solvent-based, modified thermoplastic liquid coating that dries to a durable, flexible, rubber-like protective coating on parts and equipment. Dip, spray or brush to apply. Great for tools, metals, electrical connections, masonry, wood, conveyors, glass, rope and fabric.

**P/N Package Size**  
34979 14.5 fl. oz. can, black  
34980 1 gallon can, black  
34982 14.5 fl. oz. can, blue  
34983 1 gallon can, blue  
34985 14.5 fl. oz. can, red  
34988 14.5 fl. oz. can, yellow  
34989 1 gallon can, yellow

## COATING HINTS

- When coating any surface, make sure the parts are clean and dry. Try doing a small test piece first to confirm that the coating meets your expectations. This will save you time and money if the desired results are not achieved.
- LOCTITE® SF F720™ Thinner can be used to remove cured LOCTITE® SF F720™ Coating.
- LOCTITE® SF F720™ Coating colors can be mixed to make different colors.

HELPFUL HINTS



**Belt Dressing**

**Rust Treatment**

**Weld Anti-Spatter**

**PC 7319™**

**SF 5408™**

**SF 754™**

**SF 7900™ Ceramic Shield for Welding**

Epoxy Coating	Liquid Spray	Rust Converter	Weld Anti-Spatter
Grey	Colorless	Matte Black	White
Up to 150°F (65°C)	Up to 200°F (93°C)	Up to 250°F (121°C)	N/A
24 hrs.	N/A	30 min.	10 sec.

**LOCTITE® PC 7319™ Nordbak® Chemical Resistant Coating**

Smooth, glossy, low-friction finish protects against turbulence, abrasion and cavitation. This advanced epoxy protects equipment from extreme chemical attack and corrosion. Low viscosity epoxy can be applied by bristle brush. Not a wear-resistant coating.

**P/N Package Size**  
96092 11 lb. kit

**LOCTITE® SF 5408™ Belt Dressing & Conditioner**

Recommended to prevent slipping and increase friction for all types of belts. Extends belt life. Penetrates the cord fibers of "V" belts to restore pliability and flexibility. Eliminates squeaking and glazing. Not for serpentine belts. VOC compliant.

**P/N Package Size**  
30527 12 oz. net wt. aerosol

**LOCTITE® SF 754™ Rust Treatment**

Converts existing rust (rust required) into a stable base. Cured product acts as a primer ready for painting with oil- or solvent-based paint. Protects surface from corrosion. Use on metal pipes, valves, fittings, outside surfaces of storage tanks, fences, guardrails, wrought iron furniture, conveyors, and construction and agricultural equipment.

**P/N Package Size**  
30539 10.25 oz. net wt. aerosol (clear)  
75430 1 quart bottle  
75448 1 gallon bottle  
75465 5 gallon pail

**LOCTITE® SF 7900™ Ceramic Shield for Welding**

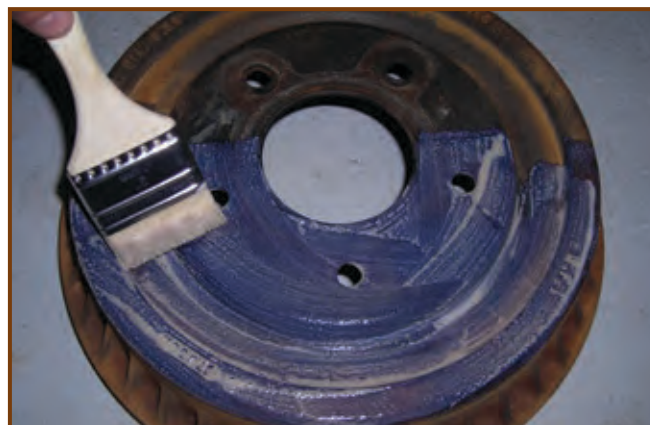
A ceramic dry film protective coating for Mig/Mag welding processes. This product protects contact tips and welding nozzles by preventing adhesion of welding spatter. This results in significantly longer processing time (up to 8 hours) without cleaning of the welding equipment and reduction in downtime.

**P/N Package Size**  
1616692 9.5 oz. net wt. aerosol

# Protective Coatings

## LOCTITE® Protective Coating Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	TEMPERATURE	DRY TIME	FULL CURE	COVERAGE	APPLICATION METHOD	AGENCY APPROVALS	
LIQUID RUBBER COATINGS	SF 720™	34979 34980	14.5 fl. oz. can 1 gallon can	Black	Up to 200°F (93°C)	4 hours (allow 30 minutes between coats)	24 hours at ambient temperature	180 sq. ft. per gallon at 2.5 mil thickness	Dip, brush or spray	CFIA Listed
		34982 34983	14.5 fl. oz. can 1 gallon can	Blue						
		34985	14.5 fl. oz. can	Red						
		34988 34989	14.5 fl. oz. can 1 gallon can	Yellow						
RUST TREATMENT	SF 754™	30539	10.25 oz. net wt. aerosol	Clear Liquid	Up to 250°F (121°C) intermittent	Re-coat in 2 to 3 minutes	24 hours at ambient temperature	200 sq. ft. per gallon at 2.5 mil thickness	Aerosol spray	ABS, CFIA Listed
		75430 75448 75465	1 quart bottle 1 gallon bottle 5 gallon pail	Converts from a White Liquid to Matte Black	Up to 250°F (121°C) intermittent	Re-coat in 20 minutes				
SPECIALTY COATINGS	SF 7607™	30538	16 oz. net wt. aerosol	Brown to Black	Up to 200°F (93°C)	20 minutes	24 hours at ambient temperature	Recommended 2 coats	Aerosol spray	N/A
	PC 9660™	51211 51213	12 oz. net wt. aerosol 1 gallon can	Brown	Up to 200°F (93°C)	3 to 6 hours	Waxy coat	Apply heavy coat with brush	Brush on	CFIA Listed
	SF 7693™	82039	15 oz. net wt. aerosol	Low Gloss Grey	Up to 400°F (204°C) constant; 600°F (316°C) intermittent	15 minutes to touch	24 hours at ambient temperature	Apply heavy coat at 12 to 15 inches away	Aerosol spray	CFIA Listed
	SF 5408™	30527	12 oz. net wt. aerosol	White	Up to 200°F (93°C)	Penetrates belt	Increases friction right away	Spray light coating	Aerosol spray	CFIA Listed
	PC 7319™	96092	11 lb. kit	Grey	Up to 150°F (65°C) wet; >200°F (93°C) dry	28 hours	48 hours	74 sq. ft. at 20 mil thickness	Roll or brush on	CFIA Listed
	SF 7900™ CERAMIC SHIELD FOR WELDING	1616692	9.5 oz. net wt. aerosol	White	N/A	10 seconds	10 seconds	Spray on sparingly (excess coating will flake)	Aerosol spray	N/A



# Wear-Resistant Coatings



## Your Application

- Utilize the superior wear properties of ceramic and the convenience of two-part epoxies to protect equipment like pumps, chutes and augers in harsh industrial environments
- Stand up to almost any corrosion, abrasion and wear problem
- Make large-scale repairs that last

## ARE YOU EXPERIENCING CORROSION OR WEAR?

Wear

Sliding abrasion or impact resistance?

Sliding

Particle Size

Small Particle/Slurry

## Solution

PC 7317™

PC 7227™  
PC 7228™

PC 7255™

PC 7222™

	PC 7317™	PC 7227™ PC 7228™	PC 7255™	PC 7222™
<b>Color</b>	Grey	Grey or White	Green	Dark Grey
<b>Maximum Temperature</b>	225°F (107°C)	200°F (93°C)	200°F (93°C)	250°F (121°C)
<b>Working Time*</b>	30 min.	30 min.	40 min.	30 min.
<b>Cure Time*</b>	6 hrs.†	24 hrs.	6 hrs.	6 hrs.

## Product Description

**LOCTITE® PC 7317™ Nordbak® Pneu-Wear**  
Resists fine particle abrasion caused in pipe elbows of pneumatic conveyor systems.  
**ABS Approved.**

**P/N Package Size**  
98383 3 lb. kit  
98382 25 lb. kit

**LOCTITE® Nordbak® 7224™ Pneu-Wear Cure Accelerator**

**P/N Package Size**  
1736175 2.49 lb. can

**LOCTITE® PC 7227™, PC 7228™ Nordbak® Brushable Ceramic**  
Smooth, wear-resistant, low-friction coating to combat turbulence and cavitation on components such as pump housings and impellers.

**P/N Package Size**  
98733 Grey 2 lb. kit  
98732 Grey 6 lb. kit  
997367\*\* Grey 12 lb. kit

**LOCTITE® PC 7228™ Nordbak® Brushable Ceramic**

**P/N Package Size**  
96443 White 2 lb. kit

**LOCTITE® PC 7255™ Nordbak® Sprayable Ceramic**

Smooth, wear-resistant, low-friction coating to combat turbulence and cavitation on components such as pump housings and impellers.

**P/N Package Size**  
1389509 Green 900 ml cartridge

**LOCTITE® PC 7222™ Nordbak® Wear Resistant Putty**

Ceramic fibers give this trowelable putty excellent wear and abrasion resistance with a smooth, low-friction finish. Can be used over other wearing compounds to fill voids.

**P/N Package Size**  
98742 1 lb. kit  
98743 3 lb. kit

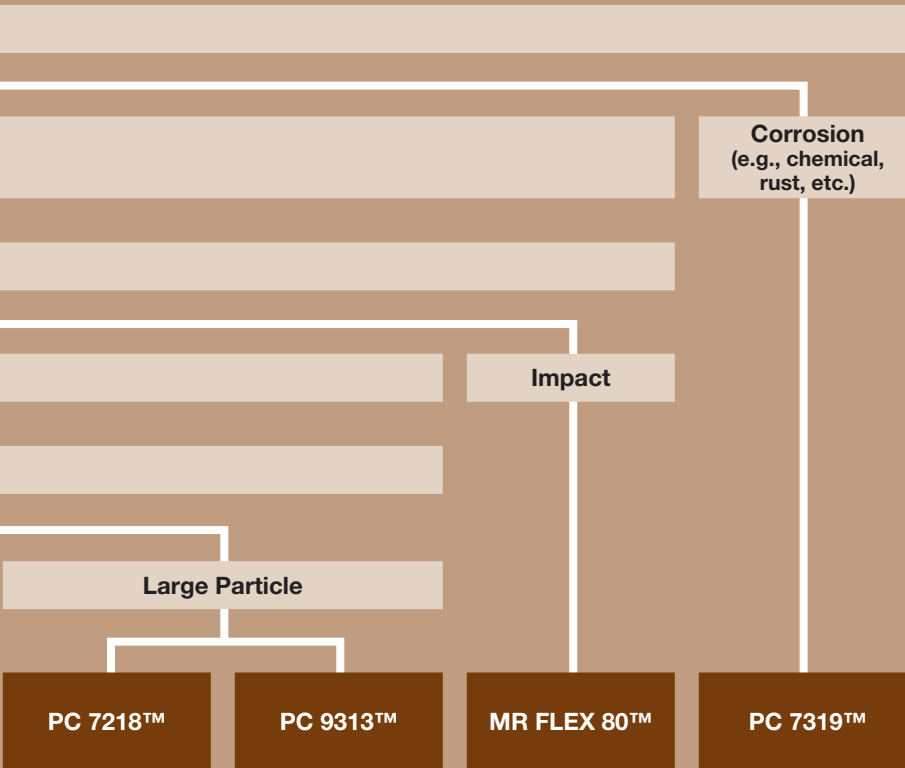
**NOTE:** Available in trowelable and brushable formulations with special fillers for tough conditions.

\* At 77°F (25°C).

\*\*Made-to-order item.

† Cure time can be reduced to 2-3 hours with cure accelerator.





PC 7218™	PC 9313™	MR FLEX 80™	PC 7319™
Grey	Light Grey	Black	Grey
250°F (121°C)	200°F (93°C)	300°F (149°C)	200°F (93°C)
20 min.	20 min.	10 min.	20 min.
6 hrs.†	6 hrs.	8 hrs.	24 hrs.

**LOCTITE® PC 7218™ Nordbak® Wearing Compound**

Trowelable compound that protects against sliding abrasion. Use to rebuild and protect chutes, pump housings, elbows, cyclones and material handling equipment.

**P/N Package Size**  
1324008 5 lb. kit  
1323940 25 lb. kit

**LOCTITE® Nordbak® 7223™ Wearing Compound Cure Accelerator**

**P/N Package Size**  
1728412 2.49 lb. can

**LOCTITE® PC 9313™ Nordbak® High Impact Wearing Compound**

Rubber-modified compound absorbs impact. Recommended where both sliding abrasion and impact are present.

**P/N Package Size**  
1327836 25 lb. kit

**LOCTITE® MR FLEX 80™ Urethane Repair Putty**

A trowelable, two-part urethane for rebuilding and repairing rubber parts and linings, providing impact, abrasion, and corrosion resistant protection. Use Flex™ accessory products to properly etch, clean and prime surfaces.

**ABS Approved.**

**P/N Package Size**  
97423 1 lb. kit  
97422 6 lb. kit

**LOCTITE® PC 7319™ Nordbak® Chemical Resistant Coating**

Smooth, glossy, low-friction finish protects against turbulence, abrasion and cavitation. This advanced epoxy protects equipment from extreme chemical attack and corrosion. Low viscosity epoxy can be applied by brush.



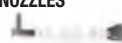
**P/N Package Size**  
96092 11 lb. kit

**COATING HINTS**

- You may smooth out any composite repair product using isopropyl alcohol (IPA) or acetone and a gloved hand.
- When applying two coats of LOCTITE® Nordbak® Brushable Ceramic, a different color can be used for each: grey and white. When the first coat begins to wear, the second color coat will show through, providing an accurate visual indicator of wear.

**HELPFUL HINTS**

**NORDBAK® SPRAYABLE CERAMIC EQUIPMENT**

LOCTITE® PRODUCT	ITEM NUMBER	DESCRIPTION
 PNEUMATIC HANDGUN	1175530	Dual cartridge handgun; 2:1 ratio. Spray adapter with pressure regulator, gauge, air hose.
 PRE-HEATER BOX	796993	Preheating system for 900 ml cartridge
 SPRAYABLE CERAMIC MIX NOZZLES	1248606	Mix nozzle 6.4 mm/24 elements include orifice restrictor OR4

# Wear-Resistant Coatings

## LOCTITE® Wear-Resistant Coating Properties & Applications Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COVERAGE (FT <sup>2</sup> @ 1/4 IN. THICKNESS)	COLOR	MAXIMUM OPERATING TEMPERATURE (°F)	COMPRESSIVE STRENGTH (psi)	SHORE HARDNESS	WORKING TIME (MINUTES) 77°F	FUNCTIONAL CURE (HOURS) 77°F	MIX RATIO BY VOLUME (R:H)	
COARSE/LARGE PARTICLE ABRASION	<b>PC 7218™</b>	1324008 1323940	5 lb. kit 25 lb. kit	1.75 8.7	Grey	250	16,000	D 90	30	7 †	2:1	
	PC 7230™	99112	25 lb. kit	8.7	Grey	450	15,000	D 90	30	N/A	4:1	
	PC 7339™ NORDBAK®	96392	25 lb. kit	8.7	Red	550	N/A	D 90	30	N/A	2.5:1	
	PC 9599™	96373	6 lb. kit	2.3	Blue	225	10,000	D 90	10	3	2:1	
	<b>PC 7357™</b>	1324571	6 lb. kit	2.3	Grey	250	13,000	D 90	25	8	2:1	
	PC 9331™	41343	25 lb. kit	8.75	Grey	250	16,000	D 90	30	7	2:1	
FINE PARTICLE ABRASION	PC 7317™	98383 98382	3 lb. kit 25 lb. kit	8.7	Grey	250	15,000	D 85	30	6 §	4:1	
	PC 7303™	98372	25 lb. kit	8.7	Grey	450	15,000	D 90	30	N/A	4:1	
	PC 7338™	96332	25 lb. kit	8.7	Red	550	N/A	D 90	30	N/A	2:1	
	PC 7455™	96363	6 lb. kit	2.3	Blue	225	12,000	D 90	10	3	2:1	
	PC 7473™ NORDBAK® FAST CURE PNEU-WEAR	1117828***	25 lb. kit	9.6	Blue	225	12,000	D 90	10	3	2:1	
	PC 7222™	98742 98743	1 lb. kit 3 lb. kit	0.37 1.11	Grey	225	11,600	D 89	30	6	2:1	
LIQUID/SLURRY TURBULENCE	PC 7227™	98733 98732 997367***	2 lb. kit 6 lb. kit 12 lb. kit	12* 36* 72*	Grey	200	10,180	D 85	30	24	2.75:1	
	PC 7228™	96443	2 lb. kit	12*	White	200	10,866	D 85	30	24	2.8:1	
	PC 7255™	1389509	900 ml cartridge	37	Green	230	15,400	D 86	40	6	100:50	
	PC 7234™	96433 997369***	2 lb. kit 12 lb. kit	12* 72*	Red	550	14,800	D 88	120	N/A	2.6:1	
IMPACT WEAR RESISTANCE	<b>PC 9313™</b>	1327836	25 lb. kit	8.75	Grey	250	12,000	D 85	30	6	2:1	
	MR FLEX 80™	97423 97422	1 lb. kit 6 lb. kit	94** 560**	Black	180	N/A	A 88	10	8	2.5:1	
SPECIALTY WEAR RESISTANCE	<b>PC 9628™</b>	98992	25 lb. kit	277 in. <sup>3</sup>	Grey	225	15,000	D 90	30	6	2:1	
	PC 7363™	1324544	20 lb. kit	20††	Beige	200	14,000	D 88	60	12	1:1	
SPECIALTY COATINGS	PC 7319™	96092	11 lb. kit	75 sq. ft. at 20 ml thickness	Grey	150 wet/ >200 dry	9,840	D 85	20	16	2.3:1	

ITEMS IN RED = Source's PICK or NEW

\* 20 mil thickness. \*\* in.<sup>2</sup> at 1/4 in. thickness. \*\*\* Made-to-order item. † At 250 micron. †† At 1/8 in. thick.  
‡ Cure time can be reduced using LOCTITE® Nordbak® 7223™ Wearing Compound Cure Accelerator, item number 1728412 (see page 56)  
§ Cure time can be reduced using LOCTITE® Nordbak® 7224™ Pneu-Wear Cure Accelerator, item number 1736175 (see page 55)

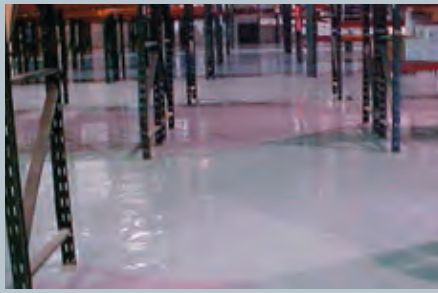
△ Good Choice ▲ Preferred Choice

PLEASE NOTE: Properties are based on mixing 1 lb. mass at 77°F, ultimate cure.



	MIX RATIO BY WEIGHT (R:H)	AGENCY APPROVALS	FINE PARTICLE ABRASION	MULTIPLE PARTICLE ABRASION	IMPACT RESISTANCE	CHEMICAL CORROSION PROTECTION	HIGH TEMPERATURE RESISTANCE	FAST CURE	CORROSION PROTECTION	TILE INSTALLATION	PUMP REPAIR	ELBOWS	FAN HOUSINGS	CYCLONES	CHUTES
	2:1	NEHC, NAVSEA									△	△	▲	△	▲
	3.9:1	N/A					▲				△	△	▲	△	▲
	2.85:1	N/A					▲				△	△	▲	△	▲
	2:1	N/A						▲			△	△	▲	△	▲
	2:1	N/A	△	▲								△	△	△	△
	2:1	N/A	△	▲											
	4:1	ABS, CFIA, NEHC, NAVSEA	▲	△							▲	▲	△	▲	△
	4:1	N/A	▲	△			▲				▲	▲	△	▲	△
	2.27:1	N/A	▲	△			▲				▲	▲	△	▲	△
	2.27:1	CFIA	▲	△				▲			▲	▲	△	▲	△
	2:1	N/A				△			△		▲	▲	△	▲	△
	4.8:1	CFIA, NSF				△			▲		△				
	4.5:1	CFIA				△			▲		△				
	100:50	N/A							▲		△				
	4.25:1	N/A				△	▲		▲		△				
	2:1	N/A			▲										
	2.6:1	ABS			▲										
	6.8:1	N/A	△	△		△						▲		▲	
	1:1.25	N/A			△					▲					
	3.4:1	CFIA													

# Flooring & Concrete Repair



<b>59</b>	<b>FLOORING &amp; CONCRETE REPAIR</b>
61	Anti-Slip Coatings
63	Flooring, Concrete Repair & Grouting

## WHY USE LOCTITE® FLOORING AND CONCRETE REPAIR PRODUCTS?

In today's harsh industrial environments, facility floors, concrete floors and other concrete structures endure constant abuse. The family of LOCTITE® concrete repair products and LOCTITE® floor coating systems provides the solutions needed to keep facilities looking good and performing great. The systems include concrete repair products, primers and sealants, topcoats, and sealants for expansion and control joints. These two- or three-part, premeasured epoxy and urethane systems are non-shrinking and will bond to concrete without the use of special bonding agents. The full line includes water-based and 100% solids products. They are appropriate for vertical, horizontal and overhead surfaces. The full line includes products in a wide variety of compressive strengths, chemical and temperature resistance.

## WHAT CONSIDERATIONS ARE NECESSARY WHEN CHOOSING A LOCTITE® FLOORING REPAIR PRODUCT?

- **Anti-Slip Coating:** There are several factors to consider – the most important of which is profile size. A more aggressive profile will provide better traction and a higher coefficient of friction. A lower profile will provide a better walking surface and will be easier to clean, in addition to the anti-slip properties. It is also important to consider the substrate that is being coated and the type of exposure the coating will endure. Information and charts on the following pages will help guide you through the selection process.
- **Flooring, Concrete Repair & Grouting:** When choosing a floor or concrete repair product, the important things to consider are substrate condition, traffic and chemical exposure, and time available to complete the repair. Information and charts on the following pages will help you choose a product that will provide superior protection against the harshest environments or get your floor back in service in under an hour!

## KEY BENEFITS OF LOCTITE® FLOORING AND CONCRETE REPAIR PRODUCTS:

- Concrete protection
- Chemical resistance
- Improved facility safety
- Available in variety of colors
- Significantly higher compressive strengths than concrete
- Varying cure times ranging from 15 minutes to 24 hours, depending on product

## HOW IMPORTANT IS SURFACE PREPARATION?

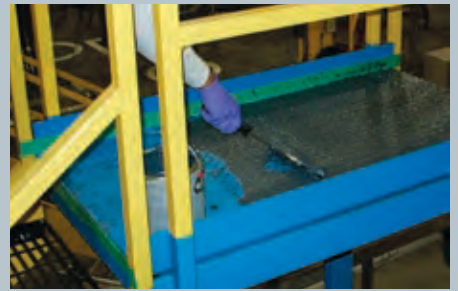
A floor repair is only as good as the concrete or substrate to which it is adhering. It is important to check thoroughly for damaged or loose concrete, because a failure of the substrate below the repair would eventually degrade the integrity of the repair itself. Surface preparation is the most important aspect of any concrete or floor repair.

## WHEN DO I NEED TO USE A PRIMER?

It is always recommended that a primer be used before applying an anti-slip coating. Primers increase adhesion to the substrate and also seal porosity when applied on concrete. The decision of which primer to use is based on the product being used and the substrate. The charts in this section will assist you in choosing the right primer for your application.

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; *within Canada, call 1-800-263-5043*; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



# Flooring & Concrete Repair



# Anti-Slip Coatings

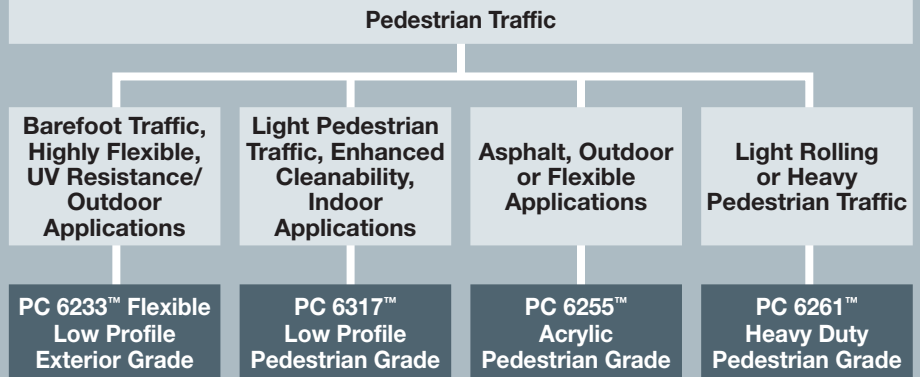


## Your Application

- Provide tough, long-lasting anti-skid surfaces for added safety
- Can be easily applied using LOCTITE® phenolic or bristle rollers to concrete, metal or wood surfaces
- Stand up to heavy traffic and harsh environments
- For maximum adhesion, use LOCTITE® primers

## Solution

### DO YOU HAVE PEDESTRIAN OR VEHICULAR TRAFFIC?



Color	Black/Grey	Black/Grey/ Safety Yellow	Black/Grey	Black/Grey/ Safety Yellow
Coverage per Gallon (ft. <sup>2</sup> /meter <sup>2</sup> )	70 ft. <sup>2</sup> (6.5 m <sup>2</sup> )	90 ft. <sup>2</sup> (8.3 m <sup>2</sup> )	70 ft. <sup>2</sup> (6.5 m <sup>2</sup> )	50 ft. <sup>2</sup> (4.7 m <sup>2</sup> )
Working Time (minutes)	N/A	60	N/A	N/A
Recommended Primer on Concrete or Porous Surfaces	LOCTITE® PC 6253™ Acrylic Primer	LOCTITE® PC 7641™ Water-Based Epoxy Primer/Sealer	LOCTITE® PC 6253™ Acrylic Primer	LOCTITE® PC 7641™ Water-Based Epoxy Primer/Sealer
Recommended Primer on Metal Surfaces	LOCTITE® PC 7643™ Metal Primer	LOCTITE® PC 7643™ Metal Primer	LOCTITE® PC 7643™ Metal Primer	LOCTITE® PC 7643™ Metal Primer
Profile Illustration				

## Product Description

### LOCTITE® PC 6233™ Flexible Low Profile Exterior Grade

Single component, water-based, anti-slip coating. Designed for barefoot traffic in water-prone areas. It is chip-, scuff- and impact-resistant, as well as UV-resistant and flexible. Ideal for recreation areas as well as industrial and institutional facilities.

**P/N Package Size**  
1354766 1 gallon can, grey  
1352349 1 gallon can, black

### LOCTITE® PC 6317™ Low Profile Pedestrian Grade

A two-component coating that combines water-borne epoxy resins and tough, fine-grained abrasives to produce a self-sealing, non-slip floor and deck coating. Enhanced cleanability, chemical resistance and coverage are but a few of the reasons LOCTITE® PC 6317™ Low Profile Pedestrian Grade is the first choice for low-profile applications.

**P/N Package Size**  
1629607 1 gallon kit, black  
1633986 5 gallon kit, black  
1625197 1 gallon kit, light grey  
1629597 5 gallon kit, light grey  
1601332 1 gallon kit, safety yellow

### LOCTITE® PC 6255™ Acrylic Pedestrian Grade

A single-component, elastomeric, anti-slip floor and deck coating for optimum adhesion to asphalt and flexible applications. Best for outdoor applications.

**P/N Package Size**  
1620706 1 gallon can, grey  
1629598 1 gallon can, black

### LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade

**Chemical Resistant**  
For areas with heavy pedestrian or light rolling traffic. Ideal for ramps, walkways, locker rooms, stairs and assembly areas. Fire retardant when cured.

**P/N Package Size**  
1602679 1 gallon can, black  
1602121 1 gallon can, grey  
1629599 5 gallon can, grey  
1592315 1 gallon can, safety yellow

### USE A PRIMER

- Use a primer before applying any anti-slip coating to increase adhesion and seal porosity on concrete surfaces. See the Recommended Primers above for assistance in choosing the right primer for your application.

**HELPFUL HINTS**



## LOCTITE® Anti-Slip Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	COVERAGE	MIX RATIO BY WEIGHT/VOLUME (RESIN : HARDENER)	MIXTURE TEMP.	WORK TIME (MIN.)	FUNCTIONAL CURE (HOURS)*	
<b>ADHESIVES/COATINGS</b>	<b>PC 6317™ LOW PROFILE PEDESTRIAN GRADE</b>	1629607 1633986 1625197 1629597 1601332	1 gal. kit 5 gal. kit 1 gal. kit 5 gal. kit 1 gal. kit	Black Black Light Grey Light Grey Safety Yellow	90 ft. <sup>2</sup>	5.25:1/3.5:1	140°F	60	24/72
	<b>PC 6233™ FLEXIBLE LOW PROFILE EXTERIOR GRADE</b>	1354766 1352349	1 gal. can 1 gal. can	Grey Black	70 ft. <sup>2</sup> per gallon	Single Component	140°F	N/A	24/72
	<b>PC 6261™ HEAVY DUTY PEDESTRIAN GRADE</b>	1602679 1602121 1629599 1592315	1 gal. can 1 gal. can 5 gal. can 1 gal. can	Black Grey Grey Safety Yellow	50 ft. <sup>2</sup> per gallon	Single Component	140°F	N/A	12/72
	<b>PC 6311™ VEHICULAR GRADE</b>	1602678 1602674 1625203	1 gal. kit 1 gal. kit 5 gal. kit	Black Grey Grey	40 ft. <sup>2</sup> per gallon	17.6:1 / 8.9:1	140°F	120	12/48
	<b>PC 6315™ ZERO V.O.C.</b>	1624641 1716378	1 gal. kit 1 gal. kit	Black Grey	35 ft. <sup>2</sup> per gal.	8.5:1 / 3.75:1	140°F	60	24/72
	<b>PC 6255™ ACRYLIC PEDESTRIAN GRADE</b>	1620706 1629598	1 gal. can 1 gal. can	Grey Black	70 ft. <sup>2</sup>	Single Component	140°F	N/A	4/24
<b>PRIMERS/SEALERS</b>	<b>PC 7643™ METAL PRIMER</b>	1624642	1 gal. kit	Grey	250 ft. <sup>2</sup>	5.25:1/3.1	140°F	240	12
	<b>PC 6253™ ACRYLIC PRIMER</b>	1620703	1 gal. pail	Clear	250 ft. <sup>2</sup>	Single Component	140°F	N/A	1 to 2
	<b>PC 7641™ WATER-BASED EPOXY PRIMER/SEALER</b>	1617851 1617855	1 gal. kit 5 gal. kit	Clear	320 ft. <sup>2</sup>	1:1 / 3:1	140°F	120	3 to 6

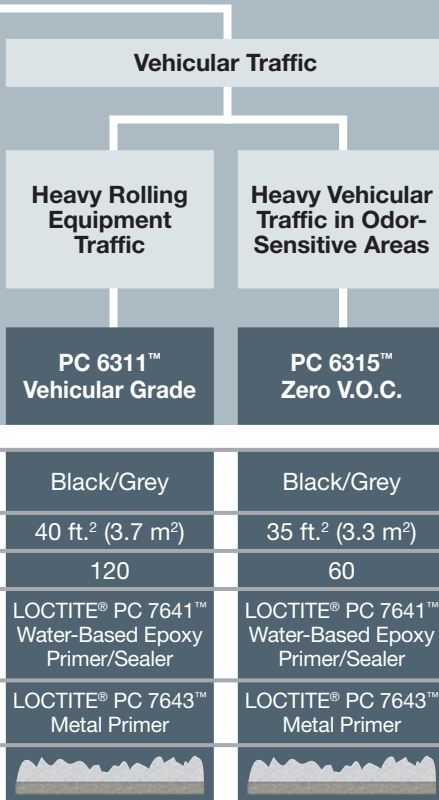
ITEMS IN RED = Source's PICK or NEW

\* Cure Time is for light pedestrian/heavy pedestrian traffic. Values are temperature- and thickness-specific. PLEASE NOTE: For best adhesion results, it is critical to follow surface preparation procedures outlined in the Technical Data Sheet for the primer/sealer to be used in your application.

## LOCTITE® Anti-Slip Applications Chart

LOCTITE® PRODUCT	ASPHALT	WOOD	CONCRETE	METAL	FLEXIBLE COATING	WATER RESISTANT	CHEMICAL RESISTANT	ANTI-SLIP (PEDESTRIAN)	ANTI-SLIP (VEHICULAR)	ANTI-SLIP (ZERO V.O.C.)
<b>PC 6317™ LOW PROFILE PEDESTRIAN GRADE</b>		▲	▲	▲			△	▲		
<b>PC 6233™ FLEXIBLE LOW PROFILE EXTERIOR GRADE</b>	▲	▲	▲		▲	▲	△	▲		
<b>PC 6261™ HEAVY DUTY PEDESTRIAN GRADE</b>		▲	▲	▲			▲	▲	△	
<b>PC 6311™ VEHICULAR GRADE</b>		▲	▲	▲			▲	△	▲	
<b>PC 6315™ ZERO V.O.C.</b>		▲	▲	▲			▲	△	△	▲
<b>PC 6255™ ACRYLIC PEDESTRIAN GRADE</b>	▲	▲	▲	▲	▲	▲		▲		

△ Good Choice ▲ Preferred Choice



### LOCTITE® PC 6311™ Vehicular Grade

Withstands even the heaviest rolling equipment traffic. Resists liquids as harsh as jet fuels and hydraulic fluids. Superior adhesion forms a solid bond to metal, concrete and wood.

P/N	Package Size
1602678	1 gallon kit, black
1602674	1 gallon kit, grey
1625203	5 gallon kit, grey

### LOCTITE® PC 6315™ Zero V.O.C.

This 100% reactive, solvent-free epoxy has the most aggressive profile in the LOCTITE® line. Use in odor-sensitive areas such as wineries, food processing plants, hospitals or confined spaces.

P/N	Package Size
1624641	1 gallon kit, black
1716378	1 gallon kit, grey

### COATING ACCESSORIES

#### LOCTITE® Phenolic Roller Cores (Heavy Duty, Vehicular, Acrylic Pedestrian, Zero V.O.C.)

Use with LOCTITE® PC 6311™ Heavy Duty Vehicular and PC 6315™ Zero V.O.C. Grade Coatings.



Item # 96121 1 per case

LOCTITE® Bristle Roller Cores Use with LOCTITE® PC 6253™ Acrylic Primer, PC 7643™ Metal Primer, and PC 7641™ Water-Based Epoxy Primer/Sealer.

Item # 96153 1 per case



#### LOCTITE® Mixer Blades

For use with all 1 gallon kits of LOCTITE® flooring compounds.

Item # 96131 1 per case



ADDITIONAL RESOURCES

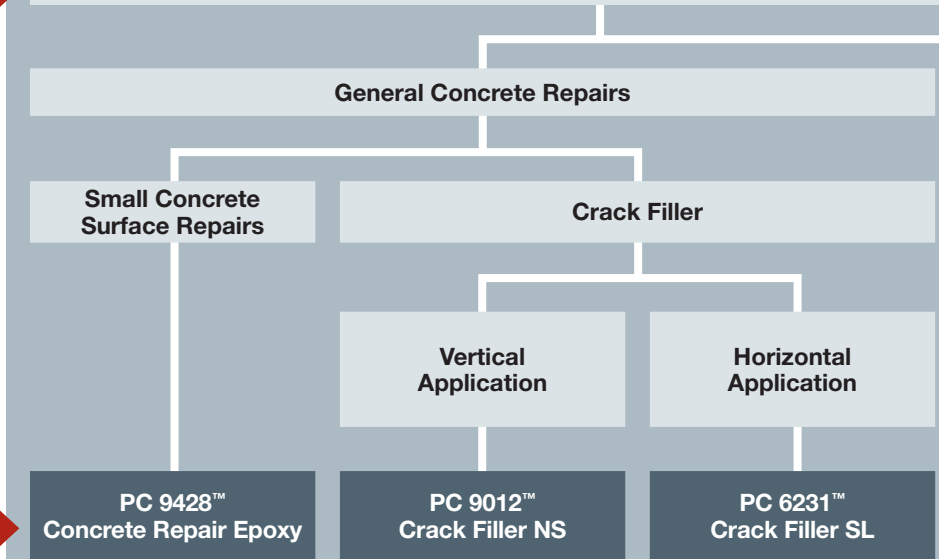
# Flooring, Concrete Repair & Grouting



## Your Application

- Repair cracked concrete floors
- Keep facility floors, concrete floors and other concrete structures safe, looking good and performing great

## GENERAL CONCRETE OR FLOOR REPAIRS?



## Solution

	PC 9428™ Concrete Repair Epoxy	PC 9012™ Crack Filler NS	PC 6231™ Crack Filler SL
<b>Color</b>	Grey	Grey	Grey
<b>Maximum Temperature</b>	250°F (121°C)	110°F (43°C)	120°F (49°C)
<b>Compressive Strength</b>	5,400 psi	8,000 psi	N/A
<b>Working Time</b>	5 min.	20 min.	3 to 6 min.
<b>Functional Cure</b>	10 min.	2 hrs.	90 min.
<b>Chemical Resistance</b>	Good	Good	Good

## Product Description

- When checking for damaged concrete, tap around the repair area with a hammer and listen for hollow spots. This will help to reveal damaged areas that are not apparent.
- Use LOCTITE® PC 7257™ Summer Additive or Winter Additive with LOCTITE® PC 9410™ (known as Magna-Crete™) and with LOCTITE® 9620™ (known as Magna-Grout™) to accelerate or slow the cure in high-temperature or speed the cure in low-temperature environments.

**HELPFUL HINTS**

### LOCTITE® PC 9428™ Concrete Repair Epoxy

Enables permanent repairs to concrete and masonry. Convenient stick contains premeasured portions of activator and base. Once cured, it can be tapped, drilled, screwed, sawed, filed or painted, and will have an appearance and texture similar to concrete.

**P/N**            **Package Size**  
39366 4 oz. stick

### LOCTITE® PC 9012™ Crack Filler NS

Non-drip, non-sag formula will repair holes, spalls, and cracks in concrete, brick, block, and masonry on horizontal or vertical surfaces. This two-part, rapid curing, high strength epoxy will not soften over time, and can be used indoors or outdoors.

**P/N**            **Package Size**  
1108886 8.6 fl. oz. cartridge

### LOCTITE® PC 6231™ Crack Filler SL

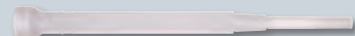
Two-component, self-leveling, flexible formula in a coaxial cartridge. Can be used indoors or outdoors. Bonds concrete, block, brick, stone, wood and metal.

**P/N**            **Package Size**  
1291113 8.6 fl. oz. cartridge  
(one nozzle included)

### LOCTITE® 300 ml Single-Axis Cartridge Mix Nozzle

Threaded Tip, 10" overall length, 11.2 mm inner diameter; 20 elements.

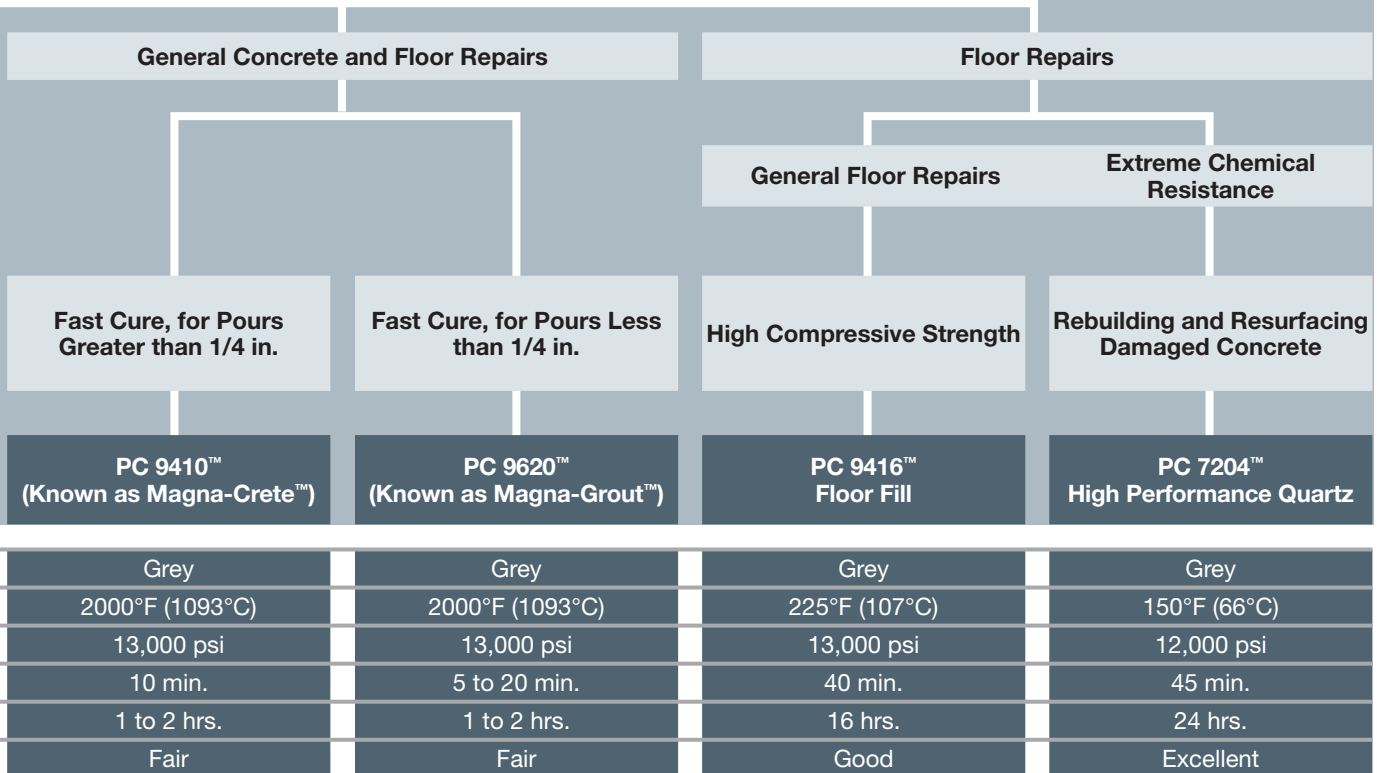
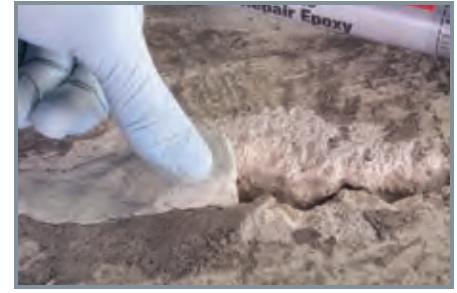
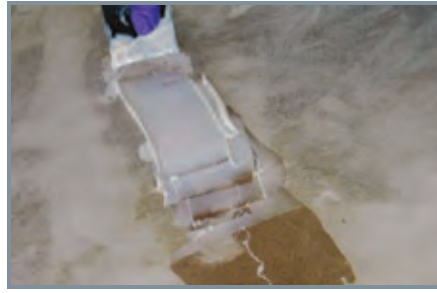
**Item #** 1100962 3 pack



**ADDITIONAL RESOURCES**

\* Uses activator: LOCTITE® PC 7257™ Activator - Item number 976786.





**LOCTITE® PC 9410™**  
High Strength, Rapid Setting  
Concrete Repair Material  
(known as Magna-Crete™)

This two-component magnesium phosphate cement sets rapidly and has a very high early strength. Ideal for road and aircraft runway repairs, which can typically be driven over after 45 minutes. It bonds to new and old concrete, as well as most construction materials including wood, glass and steel. No water additive, can be applied at temperatures as low as -15°F (-26°C).

P/N	Package Size
95551	1 gallon kit
95555	5 gallon kit
1012500	1 lb. 12 oz. kit
831304*	2,475 lb. supersack

**LOCTITE® PC 7257™ PRODUCTS:**

36334	1 gal. bottle – Activator
976786	55 gallon drum – Activator
40270	1 lb. tub – Winter Additive
40271	1 lb. tub – Summer Additive

**LOCTITE® PC 9620™**  
High Strength, Rapid Setting  
Grout and Concrete Repair  
(known as Magna-Grout™)

A two-component, rapid-setting concrete repair and grouting system with the same properties as LOCTITE® PC 9410™ (known as Magna-Crete™) but containing smaller aggregate (less than 1/4 in.) so that the mixed material can be poured thinner for resurfacing applications and feather edging.

P/N	Package Size
1477097	1 gallon kit
1476710	5 gallon kit
1476709*	2,475 lb. supersack

**LOCTITE® PC 7257™ PRODUCTS:**

36334	1 gal. bottle – Activator
976786	55 gallon drum – Activator
40270	1 lb. tub – Winter Additive
40271	1 lb. tub – Summer Additive

**LOCTITE® PC 9416™**  
Floor Fill

A three-component, self-leveling, non-shrinking epoxy floor repair system. 100% solid, epoxy-based system for repairing holes in floors, spalled areas, ramps, stairs, cracks in floors, and for use in grouting applications. Stronger than concrete, it bonds to almost any clean substrate, and provides corrosion and chemical resistance. Typical dry service temperature ranges from -20°F to 225°F (-29°C to 107°C).

P/N	Package Size
99361	10 lb. kit
99365	40 lb. kit

**LOCTITE® PC 7204™**  
High Performance Quartz

A highly filled, quartz epoxy system designed to protect old or new concrete from chemical attack. Provides a surface resistant to concentrated acids, alkalis and solvents. Areas damaged by chemical attack may be resurfaced with LOCTITE® PC 7204™. Easily applied, trowelable system that should be applied at a minimum 1/4 in. build to provide maximum chemical resistance.

P/N	Package Size
96495	42 lb. kit

**LOCTITE® Heavy Duty Manual Cartridge Applicators**

The non-sag, high-viscosity formulas of LOCTITE® PC 9012™ Crack Filler NS and LOCTITE® EA 7363™ Anchor Bolt Grout HP require a heavy-duty dispensing tool.

Item #	Use with
1093940	300 ml cartridges
1093981	600 ml dual cartridges

**CONSUMABLES – DISPENSE ACCESSORIES**  
Static Mix Nozzles and Accessories –  
Pages 176-178



**ADDITIONAL RESOURCES**

# Flooring, Concrete Repair & Grouting



## LOCTITE® Flooring, Concrete Repair & Grouting Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	COVERAGE	MIXTURE VISCOSITY (cP)	MAXIMUM TEMPERATURE	COMPRESSIVE STRENGTH (psi)	WORKING TIME	FUNCTIONAL CURE	MIX RATIO BY VOLUME (RESIN : HARDENER)	MIX RATIO BY WEIGHT (RESIN : HARDENER)	AGENCY APPROVALS
GROUTS	PC 9626™ DEEP POUR GROUT	99545	5 gallon kit	Black	660 in. <sup>3</sup>	Pourable	225°F	14,500	30 minutes	24 hours	4.1:1 to 8.2 Filler	16.4:3.6 to 80 Filler	CFIA Listed
	PC 9458™ FAST SET GROUT	1324134	2 gallon kit	Red	347 in. <sup>3</sup>	5,500	200°F	14,500	10 minutes	12 hours	100:11.7	100:6.5	CFIA Listed
	PC 9422™ SUPER GROUT	33510	5 gallon kit	Red	620 in. <sup>3</sup>	Pourable	225°F	13,800	4.75 hours	24 hours	N/A	10:5 to 85 Aggregate	N/A
ANCHOR BOLT GROUT	EA 7363™ ANCHOR BOLT GROUT HP**	1108757 1108758	8.6 fl. oz. single cartridge 20.7 fl. oz. dual cartridge	Grey	15.5 in. <sup>3</sup> 37.36 in. <sup>3</sup>	N/A	110°F 115°F	9,880	20 minutes	4 hours	1:1	100:80	N/A
	PC 7204™ HIGH PERFORMANCE QUARTZ (EXTREME CHEMICAL RESISTANCE)	96495	42 lb. kit	Grey	15 ft. <sup>2</sup> (Coverage at 1/4 in. thickness.) 540 in. <sup>3</sup>	Semi-Pourable	150°F	12,000	Primer - 45 minutes Topcoat - 60 minutes	24 hours	Primer - 100:61 Topcoat - 100:60 to 282 Filler	N/A	CFIA Listed
FLOOR REPAIR & RESURFACING	PC 9416™ FLOOR FILL	99361 99365	10 lb. kit 40 lb. kit	Grey	133 in. <sup>3</sup> 532 in. <sup>3</sup>	Semi-Pourable	225°F	13,100	40 minutes	16 hours	4.6:1 to 9.8 Filler	16:3.2 to 80.8 Filler	CFIA Listed
	PC 9410™ (KNOWN AS MAGNA-CRETE™)	95551 95555 1012500 831304*	1 gallon kit 5 gallon kit 1 lb. 12 oz. kit 2,475 lb. supersack	Grey	170 in. <sup>3</sup> 770 in. <sup>3</sup>	N/A	2000°F	13,000	5 to 20 minutes	1 to 2 hours	N/A	N/A	CFIA Listed
	PC 9620™ (KNOWN AS MAGNA-GROUT™)	1477097 1476710 1476709*	1 gallon kit 5 gallon kit 2,475 lb. supersack	Grey	170 in. <sup>3</sup> 770 in. <sup>3</sup>	N/A	2000°F	13,000	5 to 20 minutes	1 to 2 hours	N/A	N/A	N/A
	PC 7257™ FOR PC 9410™ and PC 9620™	40270	1 lb. tub for Winter Use	White	N/A	N/A	2000°F	13,000	5 to 20 minutes	(+)-10 minutes	N/A	N/A	N/A
	PC 7257™ FOR PC 9410™ and PC 9620™	40271	1 lb. tub for Summer Use							(-)-10 minutes			
	PC 7257™ FOR PC 9410™ and PC 9620™	36334 976786	1 gallon bottle 55 gallon drum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PC 9428™ CONCRETE REPAIR EPOXY	39366	4 oz. stick	Grey	16 in. <sup>2</sup> @ 1/4 in. thickness	Putty	250°F	5,400	5 minutes	10 minutes	N/A	N/A	N/A
	PC 9012™ CRACK FILLER NS	1108886	8.6 fl. oz. cartridge (one nozzle included)	Grey	15.5 in. <sup>3</sup>	Paste	110°F (43°C)	8,000	20 minutes	2 hours	1:1	N/A	N/A
	PC 6231™ CRACK FILLER SL	1291113	8.6 fl. oz. cartridge (one nozzle included)	Grey	15.5 in. <sup>3</sup>	Flowable	120°F (49°C)	N/A	3 to 6 minutes	90 minutes	1:1	N/A	N/A
	CHOCKING COMPOUND	PC 7202™ MARINE CHOCKING COMPOUND	97572 37316 96102	2 gallon kit 1 gallon kit 2 gallon kit	Green Orange	378 in. <sup>3</sup> 132 in. <sup>3</sup> 378 in. <sup>3</sup>	90,000	250°F	22,000	10 minutes	24 hours	100:11.6	100:6.9

\* Uses activator: LOCTITE® PC 7257™ Activator - Item Number 976786.  
\*\* Requires use of applicator and nozzles.


# LOCTITE® Flooring, Concrete Repair & Grouting Applications Chart

	LOCTITE® PRODUCT	ANCHOR BOLT FASTENING	CHOCKING (SHIPS)	CONCRETE FLOOR REPAIR	NON-SAG CONCRETE REPAIR	ENGINE INSTALLATION	GROUT LIGHT EQUIPMENT 1 IN. OR LESS	GROUT HEAVY EQUIPMENT 1-6 IN.	GROUT HEAVY EQUIPMENT TO 18 IN.	LEVELING EQUIPMENT	ACID/CHEMICAL RESISTANT FLOOR REPAIR	RAMPS & LOADING DOCKS	HIGHWAYS & ROADWAYS	LEVELING FLOORS
GROUTS	PC 9626™ DEEP POUR GROUT					△	△	▲		△				
	PC 9458™ FAST SET GROUT					△	▲			▲				
	PC 9422™ SUPER GROUT					△		△	▲	△				
ANCHOR BOLT GROUT	EA 7363™ ANCHOR BOLT GROUT HP	▲												
FLOOR REPAIR & RESURFACING	PC 7204™ HIGH PERFORMANCE QUARTZ (EXTREME CHEMICAL RESISTANCE)			△							▲			
	PC 9416™ FLOOR FILL			▲		△					△			
	PC 9410™ (KNOWN AS MAGNA-CRETE™)			▲			△	△				▲	▲	▲
	PC 9620™ (KNOWN AS MAGNA-GROUT™)			▲			△	△				▲	▲	▲
	PC 9428™ CONCRETE REPAIR EPOXY	▲		▲						△	△	▲		
	PC 9012™ CRACK FILLER NS			▲							▲			
	PC 6231™ CRACK FILLER SL				▲									
CHOCKING COMPOUND	PC 7202™ MARINE CHOCKING COMPOUND		▲			▲	△			△				

ITEMS IN RED = Source's PICK or NEW

△ Good Choice ▲ Preferred Choice

## LOCTITE® Heavy Duty Cartridge Applicators

	LOCTITE® PRODUCT	ITEM NUMBER	DESCRIPTION	USED TO DISPENSE	RECOMMENDED MIX NOZZLE
MANUAL CARTRIDGE DISPENSERS	 MANUAL CARTRIDGE APPLICATOR 300 ML	1093940	Manual Cartridge Applicator 300 ml Single/Coaxial/Dual Cartridges (8.6 fl. oz., 26:1 Thrust)	LOCTITE® EA 7363™ ANCHOR BOLT GROUT HP	Item 1100962 (3 pk.)
				LOCTITE® PC 6231™ Crack Filler SL	Item 1100963 (3 pk.)
				PC 9012™ Crack Filler NS	Item 1100962 (3 pk.)
	HEAVY DUTY MANUAL CARTRIDGE APPLICATOR	1093981	Manual Cartridge Applicator 600 ml Dual Cartridges (20.7 fl. oz., 26:1 Thrust)	LOCTITE® EA 9011™ Anchor Bolt Grout HP	Item 1100963 (3 pk.)








**Your Source for FLOOR FILL**  
 LOCTITE® PC 9416™ FLOOR FILL 6-STEP PROCESS



# Gasketing & Sealing

67	GASKETING & SEALING
69	Anaerobic & RTV Gasketing & Sealing
72	Anaerobic & RTV Gasketing & Sealing Equipment
73	Elastomeric Gasketing & Sealing
78	Elastomeric Gasketing & Sealing Equipment
79	Windshield Glass Installation (DGX)
80	Windshield Glass Installation (DGX) Equipment

## WHY USE LOCTITE® GASKETING & SEALING PRODUCTS?

Gaskets are used to prevent leakage of fluids or gases by forming impervious barriers. For successful gasketing, it is necessary that the seal must remain intact and leak-free over a long period of time. The gasket must be resistant to fluids and/or gases, and withstand the operating temperatures and pressures to which it is subjected. LOCTITE® gasketing products are self-forming gaskets that provide a perfect seal between components, with maximum face-to-face contact, eliminating flange face corrosion. A low-pressure seal is formed immediately on assembly. At full cure it provides a seal that won't shrink, crack or relax.

## TRADITIONAL METHODS VS. LOCTITE® MODERN SOLUTION

The major causes of failure and leakage of compression gaskets are:

- Surface contact: Compression gaskets do not provide total contact between the gasket and the flange surfaces. Therefore, minor leakages may occur (weeping rate).
- Compression set: Compression gaskets relax under dynamic loads and decrease in thickness, with subsequent loss of bolt tension in the flange joint resulting in leakage.
- Extrusion: Gaskets can be squeezed out between flanges.
- Bolt hole distortion: High stresses are transferred to the gasket material under the bolt head, causing the gasket to crack, tear, rupture or extrude.

## KEY BENEFITS OF LOCTITE® GASKETING & SEALING PRODUCTS VS. CONVENTIONAL PRECUT COMPRESSION GASKETS:

- Single-component – easy and clean to apply
- Replace conventional gaskets – reduce inventory
- Excellent instant seal
- Fill all voids
- No need for re-torquing
- High resistance to solvents
- Resist high pressure when fully cured

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



GENERAL COMPARISON & PROCESS CONSIDERATIONS	GASKET TYPE			
	CONVENTIONAL GASKET DRESSINGS	CURED-IN-PLACE SILICONES	FORMED-IN-PLACE ANAEROBICS	FORMED-IN-PLACE SILICONES
NUMBER OF COMPONENTS	1	1	1	1
BENEFITS	Versatile, immediate green strength (sticky)	High gap filling, reusable/serviceable gasket, immediate fill properties	Improved structural strength, long open time, high pressure seal	High gap filling, resistant to dynamic fatigue, on-line pressure testing
LIMITATIONS	Non-curing, limited gap fill, % shrinkage	Requires process equipment	Limited gap fill	Short open time
<b>TEMPERATURE RESISTANCE</b>				
CONTINUOUS OPERATION	-65°F to 400°F (-54°C to 204°C)	-60°F to 400°F (-51°C to 204°C)	-40°F to 400°F (-40°C to 204°C)	-60°F to 400°F (-51°C to 204°C)
MAXIMUM	600°F (315°C)	500°F (260°C)	400°F (204°C)	725°F (385°C)
<b>FLUID RESISTANCE</b>				
OIL	Yes	Yes	Yes	Yes
WATER/GLYCOL	Yes	Yes	Yes	Yes
FUEL	Limited	No	Limited	No
TRANSMISSION FLUID	Yes	Yes	Yes	Yes
<b>GAP FILL</b>				
IDEAL	0.001 in. to 0.005 in.	0.020 in. to 0.125 in.	0.001 in. to 0.005 in.	0.001 in. to 0.125 in.
MAXIMUM	0.010 in.	0.240 in.	0.050 in.	0.240 in.
INSTANT SEAL	High Pressure	High Pressure	Low Pressure	Low Pressure
FLANGE TYPE	Rigid or Flexible	Rigid or Flexible	Rigid	Rigid or Flexible
<b>SUITABLE FOR USE WITH:</b>				
METALS	Yes	Yes	Yes	Yes
PLASTICS	Yes	Yes	No*	Yes
<b>CURE</b>				
CURE METHOD	N/A	UV/RTV	Anaerobic	RTV
CURE TEMPERATURE	Room Temperature	Room Temperature	Room Temperature	Room Temperature
INITIAL CURE SPEED	Immediate	15 to 30 seconds	15 to 30 minutes	15 to 30 minutes
FULL CURE SPEED	N/A	30 seconds	24 to 72 hours	1 to 7 days
<b>PROCESSING OPTIONS</b>				
MANUAL	Yes	No	Yes	Yes
AUTOMATED	No	Yes	Yes	Yes

\* Uncured liquid adhesives may cause stress cracking of certain thermoplastics (e.g., polycarbonates, acrylics and polysulfone). Special products and process techniques are available. Consult the LOCTITE® Design Guide for Bonding Plastics (LT-2197) or call 1-800-562-8483 for more information.

**PLEASE NOTE:** This chart should not be used to specify products without specific testing. It is recommended that you conduct on-part testing to ensure product performance before specifying any gasketing product.

# Anaerobic & RTV Gasketing & Sealing



## Your Application

- Revolutionized flange sealing in the automotive industry, the assembly of heavy equipment, and the manufacture of various types of fluid power equipment
- Remain a liquid when exposed to air, but cure when confined between mating flanges
- Best suited for small gap applications and rigid metal-to-metal assemblies

## Solution

DOES THE EXISTING GASKET NEED TO BE USED AS A SHIM?

No

Are you sealing a rigid or a flexible flange?

Rigid

Flexible

**510™  
Flange Sealant**

**518™  
Flange Sealant**

**SI 587™ Blue\*  
High Performance  
RTV Silicone  
Gasket Maker**

**SI 598™ Black\***

Gasket Type	Formed-in-Place	Formed-in-Place	Formed-in-Place	Formed-in-Place
Gap Fill	0.010" (0.25 mm)	0.010" (0.25 mm)	0.250" (6.35 mm)	0.250" (6.35 mm)
Gap Fill with Primer	0.020" (0.50 mm)	0.050" (1.27 mm)	N/A	N/A
Cure Method	Anaerobic	Anaerobic	Moisture (RTV)	Moisture (RTV)
Cure Time	4 to 24 hrs.	4 to 24 hrs.	50 min.	20 min.
Temperature Resistance (Continuous/Intermittent)	400°F (204°C)/ N/A	300°F (149°C)/ N/A	400°F (204°C)/ 500°F (260°C)	400°F (204°C)/ 500°F (260°C)
Oil Resistance	Excellent	Excellent	Excellent	Excellent
Water/Glycol Resistance	Excellent	Excellent	Excellent	Excellent
Recommended Primer	SF 7088™, SF 7649™, SF 7471™	SF 7088™, SF 7649™, SF 7471™	Not Required	Not Required

## Product Description

### LOCTITE® 510™ Flange Sealant

#### High Temperature

Product withstands temperatures to 400°F (204°C) and has excellent solvent and chemical resistance. Fills gaps up to 0.010 in. (0.254 mm) and maintains clamping loads for strong, leakproof assemblies. Makes or dresses gaskets in rigid assemblies. Eliminates gasket compression set.

P/N	Package Size
51031	50 ml tube
51041	250 ml tube
51074	300 ml cartridge

### LOCTITE® 518™ Flange Sealant

Recommended for use on rigid iron, steel and aluminum flanges. Spray LOCTITE® SF 7649™ Primer on only one surface. **NSF/ANSI 61 Certified. CFIA Listed.**

P/N	Package Size
2102974	25 ml syringe
2102986	300 ml tube
2096062	6 ml tube
2096064	50 ml tube
2096061	300 ml cartridge

### LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker

Recommended for sealing all types of flanges, including stamped sheet metal. Designed for superior bonding properties to oil-contaminated metals. **ABS Approved. NSF/ANSI P1 Certified. CFIA Listed.**

P/N	Package Size
58730	70 ml tube
58775	300 ml cartridge
58791	50 lb. pail†
40462	190 ml can

### LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker

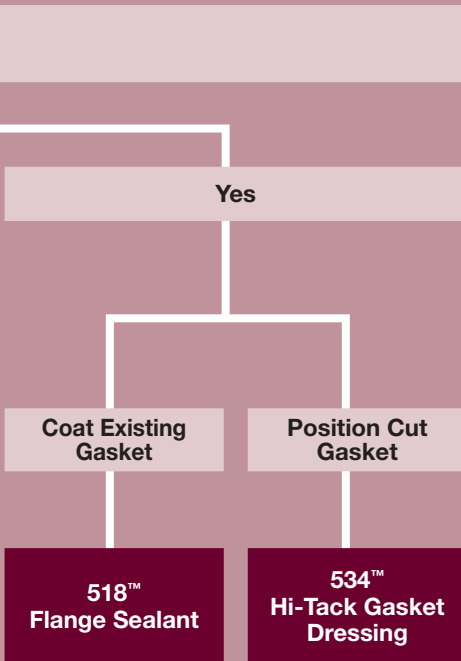
High-performance silicone gasket maker resists aging, weathering and thermal cycling without hardening, shrinking or cracking. **CFIA Listed.**

P/N	Package Size
34018	0.5 oz. tube**
59830	70 ml tube
59875	300 ml cartridge
59891	49 lb. pail
40463	190 ml can

\* See page 75 for additional properties.

\*\* Uncarded tubes, sold as full cases of 100 pieces.

† Made-to-order item.



Formed-in-Place	Two-Part Acrylic
0.010" (0.25 mm)	N/A
0.050" (1.27 mm)	N/A
Anaerobic	Anaerobic
N/A	N/A
300°F (150°C)/ N/A	300°F (150°C)/ N/A
Excellent	Excellent
Excellent	N/A
SF 7088™, SF 7649™, SF 7471™	Not Required

**LOCTITE® 518™  
Flange Sealant**

Recommended for use on rigid iron, steel and aluminum flanges. Spray LOCTITE® SF 7649™ Primer on only one surface.  
**NSF/ANSI 61 Certified. CFIA Listed.**

P/N	Package Size
22423	25 ml syringe kit
22424	300 ml syringe kit
51817	6 ml tube
51831	50 ml tube
51845	300 ml cartridge

**LOCTITE® 534™  
Hi-Tack Gasket Dressing**

No mess, semisolid formula offers added control and ease of use. Patented package is portable and won't leak or spill. Seals and holds the heaviest gaskets in place during assembly. Solvent-free and low odor. Suitable to 300°F (150°C).

P/N	Package Size
39156	19 g stick

### WHEN SHOULD A LOCTITE® PRIMER BE USED?

LOCTITE® anaerobic adhesives cure (1) in the absence of air, and (2) in the presence of metal ions. When assembling inactive metal parts – which are low in metal ions – use of a LOCTITE® Primer is strongly recommended to ensure proper performance.

HELPFUL HINTS

INACTIVE METALS (PRIMERS RECOMMENDED)		ACTIVE METALS (PRIMERS OPTIONAL)
PLATED PARTS	SILVER	IRON
ANODIZED ALUMINUM (ALODINE®, IRIDITE™)	GOLD	PLAIN STEEL
TITANIUM	ZINC	COPPER
STAINLESS STEEL	PURE	BRASS
GALVANIZED STEEL	ALUMINUM†	BRONZE
MAGNETITE STEEL	CADMIUM	MANGANESE
INCONEL™	MAGNESIUM	MONEL™
NICKEL	NATURAL OR CHEMICAL BLACK OXIDE	KOVAR™

Primers also help speed up cure rates. Fixture time can be reduced from several hours to minutes, allowing faster assembly and production throughput.

LOCTITE® primers are also recommended when assembling metal parts that are cold, have large gaps or deep threads.

**NOTE:** Using a primer will decrease ultimate bond strength.



### GASKETING & SEALING PREP STEPS

- Clean parts with LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser.
- If the parts were in contact with aqueous washing solutions or cutting fluids, which leave a protective layer on the surface, wash with hot water before use.
- If applying below 40°F, pretreat parts with LOCTITE® SF 7649™ Primer.

HELPFUL HINTS

† Pure aluminum is an inactive metal. Alloys of aluminum containing copper are considered active metals.

# Anaerobic & RTV Gasketing & Sealing

## LOCTITE® Rigid Assembly Gasketing Product Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	TYPICAL USE	GAP FILL (INCHES)	CURED STATE	VISCOSITY (cP)	TEMPERATURE RANGE	CURE SPEED	RECOMMENDED PRIMER	SPECIFIC GRAVITY	AGENCY APPROVALS	
<b>RIGID ASSEMBLY GASKETING PRODUCTS</b>	<b>510™ HIGH TEMPERATURE</b>	51031 51041 51074	50 ml tube 250 ml tube 300 ml cartridge	Red	High temp. applications, excellent solvent resistance	Unprimed – 0.010 Primed – 0.020	Rigid	188,000/ 500,000 Thixotropic	-65°F to 400°F (-54°C to 204°C)	Unprimed – 4 to 24 hrs. Primed – 30 min. to 4 hrs.	SF 7088™, SF 7471™ or SF 7649™	1.16	N/A
	<b>515™</b>	51517 51531 51580	6 ml tube 50 ml tube 300 ml cartridge	Purple	For flexible applications	Unprimed – 0.010 Primed – 0.050	Flexible	275,000/ 950,000 Thixotropic	-65°F to 300°F (-54°C to 149°C)	Unprimed – 1 to 12 hrs. Primed – 15 min. to 2 hrs.	SF 7088™, SF 7471™ or SF 7649™	1.10	UL Classified for U.S.
	<b>518™</b>	2102974 2102986 2096062 2096064 2096061	25 ml syringe 300 ml tube 6 ml tube 50 ml tube 300 ml cartridge	Red	For all metals, including aluminum flanges	Unprimed – 0.010 Primed – 0.050	Flexible	800,000/ 3,750,000 Thixotropic	-65°F to 300°F (-54°C to 149°C)	Unprimed – 4 to 24 hrs. Primed – 30 min. to 4 hrs.	SF 7088™, SF 7471™ or SF 7649™	1.13	NSF/ANSI 61, CFIA Listed
	<b>549™</b>	1661866	250 ml tube	Orange	Slow curing for extended assembly operations	Unprimed – 0.020 Primed – 0.050	Rigid	22,500	-65°F to 300°F (-54°C to 149°C)	Unprimed – 6 to 24 hrs. Primed – 2 to 24 hrs.	SF 7471™ or SF 7649™	1.25	N/A
	<b>5127™</b>	17430	300 ml cartridge	Blue	For flexible applications, high elongation	0.010	Flexible	100,000/ 500,000 Thixotropic	-65°F to 300°F (-54°C to 149°C)	Unprimed – 4 to 24 hrs. Primed – 1 to 24 hrs.	SF 7649™	1.10	N/A
<b>HIGHLY FLEXIBLE</b>	<b>509™</b>	21525	300 ml cartridge	Blue	Very flexible	Unprimed – 0.010 Primed – 0.020	Flexible	65,000/ 200,000 Thixotropic	-65°F to 300°F (-54°C to 149°C)	Unprimed – 6 to 48 hrs. Primed – 1 to 6 hrs.	SF 7088™, SF 7471™ or SF 7649™	1.12	N/A
	<b>5188™</b>	1241991 1253203	300 ml cartridge 50 ml tube	Red	Rigid metal flanges	0.005	Highly Flexible	14,000 - 32,000	-65°F to 300°F (-54°C to 149°C)	24 hrs. @ room temperature	SF 7649™	1.10	N/A

Information about SI 587™ and SI 598™ is in the chart on page 75.

## LOCTITE® Sealing / Dressing for Existing Gasket Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	TYPICAL USE	CONSISTENCY	VISCOSITY (cP)	TEMPERATURE RANGE	CURE SPEED	OIL RESISTANCE	AGENCY APPROVALS	
<b>SEALING / DRESSINGS FOR EXISTING GASKETS</b>	<b>534™ HI-TACK GASKET DRESSING</b>	39156	19 g stick	Purple	Vertical, repositionable	Semisolid	N/A	-65°F to 300°F (-54°C to 149°C)	5 minutes to set	Oil resistant	N/A
	<b>MR GS1™ GASKET SEALANT</b>	30510	1.5 oz. tube	Reddish-Brown	Fast dry, rigid cure	Paste	75,000/ 110,000	-65°F to 400°F (-54°C to 204°C)	Full strength – 24 hours	Oil resistant	CFIA Listed
		30512	7 fl. oz. tube								
	<b>MR GS2™ GASKET SEALANT</b>	30513	1.5 oz. tube	Black	Slow drying, flexible cure	Paste	75,000/ 110,000	-65°F to 400°F (-54°C to 204°C)	Remains tacky	Oil resistant	N/A
		30514	3 oz. tube								
		30515	7 fl. oz. tube								
		80964	5 gallon can								
<b>NS 5109™ GASKET MAKER</b>	30558	7 fl. oz. tube	Black	High temperature	Paste	75,000/ 110,000	-50°F to 600°F (-45°C to 315°C)	3 to 5 hours to set	Oil resistant	CFIA Listed	
<b>MR 5009™ HI-TACK GASKET SEALANT</b>	1540591	1 pint brush-top can	Red	Improved heat transfer, repositionable	Liquid	420/650	-65°F to 500°F (-54°C to 260°C)	5 minutes to set	Increased oil resistance	N/A	
	30526	9 oz. net wt. aerosol									
<b>MR 5923™ GASKET DRESSING</b>	1522029	1 pint brush can	Dark Reddish-Brown	Close tolerance, slow cure	Liquid	85/140	-65°F to 400°F (-54°C to 204°C)	Full strength – 12 hours	Oil resistant	CFIA Listed	
<b>MR 7657™ COPPER GASKET ADHESIVE</b>	30535	9 oz. net wt. aerosol	Copper	Improved heat transfer, fills surface imperfections	Aerosol	N/A	-50°F to 500°F (-45°C to 260°C)	Remains tacky	Oil resistant	N/A	

## LOCTITE® Primer Properties Chart

LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
<b>SF 7088™ PRIMER</b>	1069258	17 g stick	Teal	Semisolid	No solvent	30 days	None	Anaerobics	N/A
<b>SF 7090™ ACTIVATOR</b>	19368 12695	1 fl. oz. bottle 1 liter bottle	Dark Blue	17.5	No solvent	1 hour	None	Anaerobics	N/A
<b>SF 7471™ PRIMER</b>	19267	1.75 fl. oz. glass bottle	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs
	22477 19268	4.5 oz. net wt. aerosol can 1 gallon can							
<b>SF 7649™ PRIMER</b>	19269	1.75 fl. oz. glass bottle	Clear/ Green	2	Acetone	30 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed
	21347	25 g net wt. aerosol can							
	21348	4.5 oz. net wt. aerosol can							
	19266	1 gallon can							

ITEMS IN RED = Source's PICK or NEW  = Indicates Worldwide Availability

U.S.: 1-800-LOCTITE (562-8483)

Canada: 1-800-263-5043

na.henkel-adhesives.com/loctite

www.equipment.loctite.com










# Anaerobic & RTV Gasketing & Sealing Equipment


## YOUR EQUIPMENT Source



For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).




LOCTITE® PRODUCT		ITEM NUMBERS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD APPLICATORS	<b>SYRINGE DISPENSING – SIMPLE MANUAL DISPENSERS FOR LOW VOLUME SYRINGE APPLICATIONS</b>						
		30 ML MANUAL SYRINGE APPLICATOR	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175
		10/30 ML SYRINGE MANUAL PLUNGERS	98192	Any fluid in a 10 ml syringe	10 ml syringe (3 pack)	Low to High	
			98193	Any fluid in a 30 ml syringe	30 ml syringe (3 pack)		
	<b>TUBE DISPENSING – EASY AND EFFECTIVE TUBE DISPENSING</b>						
		50 ML-F TUBE SQUEEZE DISPENSER	1083845	Any 50 ml tube	50 ml tubes	Low to High	Dispense Tips and Accessories – Pages 174-175

LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
CARTRIDGE DISPENSING	<b>MANUAL CARTRIDGE DISPENSING</b>								
		MANUAL CARTRIDGE APPLICATOR 300 ML	1093940	N/A	Henkel Construction Adhesives, Caulking products in 10 oz. caulking tubes	300 ml cartridges	Medium to High	N/A	Cartridge Accessories – Page 175
	<b>PNEUMATIC CARTRIDGE DISPENSING</b>								
		300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges	Low to Medium	No	Cartridge Accessories – Page 175
	HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No		
	300 ML CARTRIDGE PUSHER	98022	0 to 50 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes		

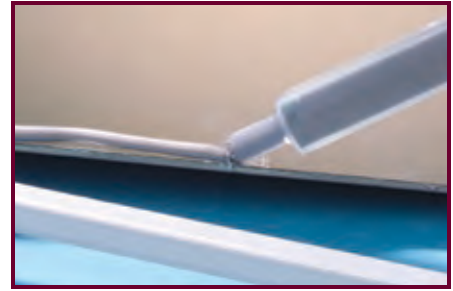
LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	CONSUMABLES – DISPENSE ACCESSORIES
DISPENSE SYSTEMS	<b>ANAEROBIC GASKETING DELIVERY SYSTEM</b>						
		PUMP-A-BEAD™ II DISPENSER	986000	Bead	Anaerobic Gasketing	850 ml cartridges	Medium to High

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
VALVES	<b>SPRAY VALVE</b>									
		SPRAY VALVE	98520	Spray Valve	Low	Spray	Primers, Accelerators, Activators	Yes	No	989268 – 0.014" Nozzle Kit 989269 – 0.028" Nozzle Kit
	<b>HIGH VISCOSITY FLUID AND PASTE VALVE</b>									
		POPPET VALVE	986300	High Viscosity Fluid and Paste	Medium to High	Drop, Bead	Anaerobic Gasketing	Yes	Yes	Dispense Tips and Accessories – Pages 174-175

LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES
CONTROLLERS	<b>MULTI-FUNCTION CONTROLLER</b>							
		SPRAY VALVE CONTROLLER	1406023	0 to 100 psi	Primers, Accelerators, Activators	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	No

Your Source for Motion Control Robot Dispense Systems. See page 169.

# Elastomeric Gasketing & Sealing



## Your Application

- Excellent fluid resistance
- Formulations for high operating temperatures available
- UV-curing formulations for cure-in-place production requirements
- Suited best for large-gap applications and stamped metal assemblies, where flange flexing occurs

## ARE YOU GASKETING OR SEALING?

### Gasketing

#### Fast Cure

#### High Fluid Resistance

#### One-Part

#### Light Cure

#### Rigid for High Torque

#### Normal Hardness

## Solution

**SI 5900®  
Instant Gasket**

**SI 5050™**

**SI 5699™**

**AA 5810A™**

<b>Color</b>	Black	Translucent	Grey	Black
<b>Viscosity</b>	Paste	Paste	Paste	Paste
<b>Temperature Range</b>	-75°F to 500°F (-59°C to 260°C)	Up to 300°F (149°C)	-75°F to 625°F (-59°C to 329°C)	-40°F to 300°F (-40°C to 150°C)
<b>Oil Resistance</b>	Increased Oil Resistance	N/A	Increased Oil Resistance	Excellent Oil Resistance
<b>Agency Approvals</b>	CFIA Listed	N/A	CFIA Listed	N/A

## Product Description

### LOCTITE® SI 5900® Instant Gasket

Makes high performance, leakproof gaskets in one minute. Equipment can be returned to service immediately. Blowout resistant. Outperforms precut gaskets.

P/N	Package Size
30509	5 fl. oz. cartridge
40479	190 ml aerosol can
40478	90 ml aerosol can
20176	300 ml cartridge Uses nozzle #870981

### LOCTITE® SI 5050™ Silicone Adhesive Sealant

A UV light curing silicone for high speed adhesion, gasketing and sealing applications. High adhesion for difficult-to-bond substrates.

P/N	Package Size
1212165	40 lb. pail

### LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker

For rigid flange assemblies. Excellent fluid resistance. Easy to dispense, noncorrosive, low odor, low volatility. Grey in color.

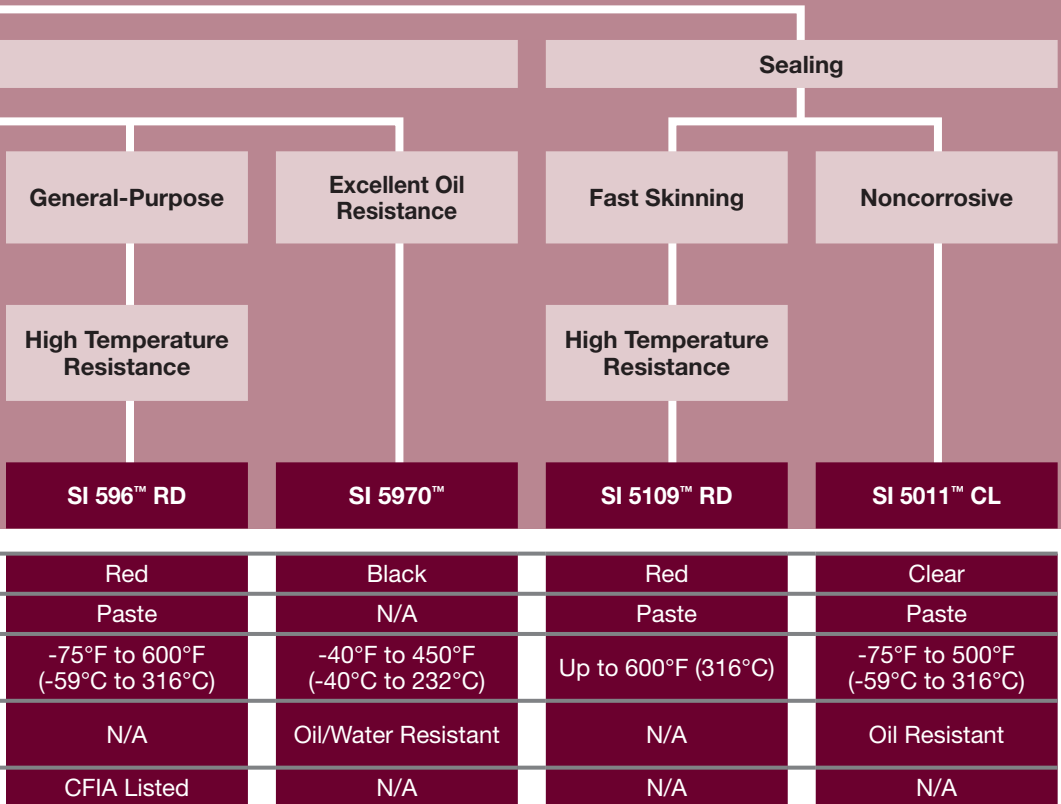
P/N	Package Size
18718	70 ml tube
18581	300 ml cartridge Uses nozzle #870981
18582	50 lb. pail
18583	550 lb. drum
40505	190 ml aerosol can

### LOCTITE® AA 5810A™ Sealant

Single-component, non-silicone polyacrylate-based adhesive/sealant. Excellent oil resistance.

P/N	Package Size
39211	300 ml cartridge
39210	50 lb. pail

\* Made-to-order item.



**LOCTITE® SI 596™ RD  
Silicone Adhesive Sealant**

Makes gaskets that resist temperatures to 600°F (316°C) intermittent. Resists aging, weather and thermal cycling without shrinking, cracking or hardening. Fills gaps to 0.25 in.

P/N	Package Size
59630	80 ml tube
59675	300 ml cartridge
82279	12 oz. tube
40465	190 ml aerosol can

**LOCTITE® SI 5970™  
Flange Sealant**

A non-oxime gasket maker. Resistant to liquid coolants, oils and most automotive fluids.

P/N	Package Size
39246	300 ml cartridge
35230	50 lb. pail

**LOCTITE® SI 5109™ RD Tile  
Bond Red High Temp RTV  
Silicone Adhesive Sealant**

High initial tack strength silicone that resists temperatures to 600°F (316°C) intermittent.

P/N	Package Size
19163	300 ml cartridge
1162399	4.5 gallon pail

**LOCTITE® SI 5011™ CL  
Noncorrosive RTV Silicone  
Adhesive Sealant**

Neutral curing and noncorrosive for aluminum, concrete and electrical applications.

P/N	Package Size
51387	80 ml tube
51388	300 ml cartridge

# Elastomeric Gasketing & Sealing



## LOCTITE® Gasketing Properties Charts

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	CONSISTENCY	OIL RESISTANCE	TEMPERATURE RANGE (INTERMITTENT)	SEALING TIME	AGENCY APPROVALS	
SEALING / FORMED-IN-PLACE	NONCORROSIVE	<b>SI 598™ BLACK</b>	34018 59830 59875 59891 40463	0.5 oz. tube** 70 ml tube 300 ml cartridge 49 lb. pail 190 ml can	Black	Paste	Excellent oil resistance	-75°F to 625°F (-59°C to 329°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	CFIA Listed
		<b>SI 587™ BLUE</b>	58730 58775 58791 40462	70 ml tube 300 ml cartridge 50 lb. pail 190 ml can	Blue	Paste	Increased oil resistance	-75°F to 500°F (-59°C to 260°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	NSF P1, CFIA Listed, ABS
		<b>SI 5699™ GREY</b>	18718 18581 18582 18583 40505	70 ml tube 300 ml cartridge 50 lb. pail 550 lb. drum 190 ml can	Grey	Paste	Increased oil resistance	-75°F to 625°F (-59°C to 329°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	CFIA Listed
		<b>SI 5920™ COPPER</b>	30542 82046 21472	70 ml tube 300 ml cartridge 40 lb. pail	Copper	Paste	Increased oil resistance	-65°F to 700°F (-54°C to 371°C)	Tack-Free – 60 min. Full Strength – 24 hrs.	CFIA Listed

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	TYPICAL USE	GAP FILL (INCHES)	EXTRUSION RATE (g/min.)	TEMP. RANGE	CURE METHOD	CURE SPEED*	SPECIFIC GRAVITY	SHORE HARDNESS	% ELONGATION	TENSILE STRENGTH (psi†)	AGENCY APPROVALS
<b>SI 5620™</b>	1257478	400 ml dual cartridge	Ultra-Clear / 1:1 A:B by volume	Ultra-clear potting, encapsulating, and sealing; noncorrosive	Unlimited	N/A	-40°F to 450°F (-40°C to 232°C)	Two-part	30 min.	1.00	A 35	N/A	N/A	N/A
	Part A - 1257595 Part B - 1257597	40 lb. pail 40 lb. pail												
	Part A - 1257594 Part B - 1257596	400 lb. drum 400 lb. drum												
<b>SI 5900®</b>	30509 40479 40478	5 fl. oz. cartridge 190 ml can 90 ml can	Black	High adhesion, instant seal	0.390	20 to 50	-65°F to 500°F (-54°C to 260°C)	Moisture	Tack-Free – 20 min. Full Cure – 24 hrs. to 7 days	1.3 to 1.37	A 31 to 36	>400	>246	NSF P1
	20176 20177 20178	300 ml cartridge 50 lb. pail 550 lb. drum	Black	High adhesion, instant seal	0.250	35	-65°F to 500°F (-54°C to 260°C)	Moisture	Tack-Free – 20 min. Full Cure – 24 hrs.	1.34	A 35	550	200	CFIA Listed, NSF P1
	38535 36923	300 ml cartridge 50 lb. pail	Black	High adhesion, fast cure depth	0.240	350	-65°F to 500°F (-54°C to 260°C)	Moisture	Tack-Free – 20 min. Full Cure – 24 hrs.	1.30	A 39	345	270	CFIA Listed
<b>SI 5905™</b>	40969	300 ml cartridge	White											
	21746 21747 21748	300 ml cartridge 50 lb. pail 550 lb. drum	Black	High adhesion	0.240	600	-65°F to 500°F (-54°C to 260°C)	Moisture	Tack-Free – 20 min. Full Cure – 24 hrs.	1.34	A 30	550	200	CFIA Listed
<b>SI 5970™</b>	39246 35230	300 ml cartridge 50 lb. pail	Black	Oil/water resistance	0.240	60	-40°F to 450°F (-40°C to 232°C)	Moisture	Tack-Free – 25 min. Full Cure – 24 hrs.	1.41	A 44	>200	278	N/A
	21744 28298 20170	300 ml cartridge 50 lb. pail 550 lb. drum	Grey	Oil/water resistant, instant seal	0.240	105	-75°F to 625°F (-59°C to 329°C)	Moisture	Tack-Free – 10 min. Full Cure – 24 hrs.	1.45	A 60	175	500	N/A
<b>SI 5045™</b>	40409 40408	3 oz. tube 300 ml cartridge	Clear	Military, high tensile	0.250 in.	40	-65°F to 400°F (-54°C to 204°C)	Moisture	Tack-Free – 1.5 hrs. Full Cure – 24 hrs.	1.14	A 25	>500	>493	MIL-A-46146B

= Indicates Worldwide Availability

\* Varies with substrates. \*\* Uncarded tubes, sold as full cases of 100 pieces. † Grit-blasted steel.

## LOCTITE® Gasketing Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	CONSISTENCY	OIL RESISTANCE	TEMPERATURE RANGE (INTERMITTENT)	SEALING TIME	AGENCY APPROVALS
POLYACRYLATE	<b>AA 5810A™</b>	39211 39210	300 ml cartridge 50 lb. pail	Black	Paste	Excellent oil resistance	-40°F to 300°F (-40°C to 150°C)	Tack-Free – 190 min.	N/A
SUPERFLEX® RTV SILICONES	<b>SI 5015™ BLUE</b>	30560 30533 30518	80 ml tube 300 ml cartridge 12 oz. tube	Blue Blue Blue	Paste	N/A	-65°F to 500°F (-54°C to 260°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	N/A
	<b>SI 5019™ BLUE</b>	40482	190 ml can	Blue					
	<b>SI GREEN RTV SILICONE</b>	1165866	190 ml can	Equipment Green					
	<b>SI 596™ RD</b>	59630 59675 82279 40465	80 ml tube 300 ml cartridge 12 oz. tube 190 ml can	Red	Paste	N/A	-75°F to 600°F (-59°C to 316°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	CFIA Listed
NONCORROSIVE	<b>SI 5011™ CLEAR</b>	51387 51388	80 ml tube 300 ml cartridge	Clear	Paste	Oil resistant	-75°F to 500°F (-59°C to 260°C)	Tack-Free – 25 min. Full Strength – 24 hrs.	N/A
HIGH TEMPERATURE SILICONE	<b>SI 5109™ RD</b>	19163 1162399	300 ml cartridge 4.5 gallon pail	Red	Paste	N/A	Up to 600°F (316°C)	Tack-Free – 30 min. Full Strength – 24 hrs.	N/A

## LOCTITE® Elastomeric Gasketing Attributes & Applications Chart

	LOCTITE® PRODUCT	MAIN ATTRIBUTES	APPLICATIONS
GASKETING SILICONES	<b>INSTANT GASKET</b>	Instant seal and blowout resistance, replaces most cut gaskets, low odor, sensor-safe	Timing gear and valve covers, water pumps, gearboxes, transmission pans
	<b>SI 598™ BLACK</b>	Forms a tough, flexible silicone rubber gasket	Oil pans, valve covers, timing gear covers, differential covers
	<b>SI 587™ BLUE</b>	Plant maintenance and small-to-large-sized OEMs	Typical automotive gasketing applications
	<b>SI 5699™ GREY</b>	Excellent oil resistance	Rigid flange sealing of transmissions and cast metal housings
	<b>SI 5920™ COPPER</b>	Fills voids in surfaces for a positive seal	Adheres to most surfaces
	<b>SI 5905™ BLACK</b>	Fast cure, excellent fluid resistance	Large gap applications, flange flexing
	<b>SI 5015™ BLUE</b>	Forms a tough, flexible silicone rubber gasket, oxygen sensor-safe	Typical automotive gasketing applications
	<b>SI 596™ RD</b>	Plant maintenance and small-to-large-sized OEMs low silicone volatiles	Automotive gasketing, industrial furnaces, boilers, ducting
	<b>SI 5011™ CLEAR</b>	Resists steam, chemical and UV ozone exposure	Adheres to most surfaces

ITEMS IN RED = Source's PICK or NEW

# Elastomeric Gasketing & Sealing



## LOCTITE® Cured-in-Place Silicone Gasketing Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	COLOR	CONSISTENCY	EXTRUSION RATE (g/min.)	CURE METHOD	CURE SPEED*	SHORE HARDNESS	% ELONGATION	TENSILE STRENGTH (psi†)	AGENCY APPROVALS
SI 5039™	40438 40439	300 ml cartridge 40 lb. pail	Translucent/ Colorless/ Fluorescent	Paste	222	UV or Visible/ Moisture	30 sec. @ 120 mW/cm²	A 40	210	290	N/A
SI 5050™	1212165	40 lb. pail	Translucent	Paste	500	Ultraviolet	Ultraviolet	A 45	260	421	N/A
SI 5950™	29287 18495	300 ml cartridge 40 lb. pail	Black	Paste	350	UV/Moisture	30 sec. @ 120 mW/cm²	A 27	200	150	N/A
SI 5964™	34347	50 lb. pail	Brown	Paste	120	Heat/ Microwave	10 min. @ 302°F (150°C) VFM 2 to 4 min.	A 28	530	635	N/A
SI 3407™	35173	30 ml syringe	Black	Paste	5	Heat	60 min. @ 302°F (150°C)	A 38	>600	>493	N/A

ITEMS IN RED = Source's PICK or NEW

\*Varies with substrates.

† Grit-blasted steel.

 = Indicates Worldwide Availability

### LOCTITE® Manual Cartridge Applicators

This applicator has a revolving barrel frame that rotates to allow for easy application of materials around corners. The one-piece sintered friction catch plate has extra durability and higher precision when compared to models with two-piece friction catch plate with plastic inserts.

Description:

- High mechanical advantage 26:1 ratio
- 300 ml cartridges
- Medium to high viscosity range



### Easy-to-Dispense Aerosol Can Systems for LOCTITE® Silicones

Several LOCTITE® silicones are now available in the most advanced system for dispensing silicones. This new package offers effortless fingertip control, easy-to-use (even upside down), and accurate dispensing while eliminating the waste, mess, and caulking guns needed for other silicone dispense systems.

Item #	40479	190 ml	SI 5900® Black
	40478	90 ml	SI 5900® Black
	40505	190 ml	SI 5699™ Grey
	40462	190 ml	SI 587™ Blue
	40463	190 ml	SI 598™ Black
	40465	190 ml	SI 596™ Red
	40481	190 ml	SI 595™ Clear
	40466	190 ml	SI 594™ White
	40464	190 ml	SI 593™ Black
	40482	190 ml	SI 5019™ Blue
	1165866	190 ml	SI Green RTV

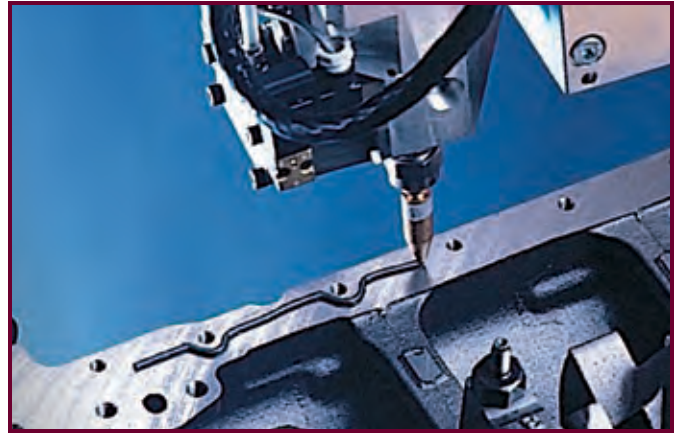







ADDITIONAL RESOURCES



# Elastomeric Gasketing & Sealing Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES
CARTRIDGE DISPENSING	<b>MANUAL CARTRIDGE DISPENSING</b>							
	 <b>MANUAL CARTRIDGE APPLICATOR 300 ML</b>	1093940	N/A	Henkel Construction Adhesives, Caulking products in 10 oz. caulking tubes	300 ml cartridges	Medium to High	N/A	Cartridge Accessories – Page 175
	<b>PNEUMATIC CARTRIDGE DISPENSING</b>							
	 <b>300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER</b>	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Silicones	300 ml cartridges	Low to Medium	No	Cartridge Accessories – Page 175
	 <b>HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER</b>	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	
 <b>300 ML CARTRIDGE PUSHER</b>	98022	0 to 50 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure/Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes		
 <b>HIGH PRESSURE 300 ML BENCHTOP CARTRIDGE DISPENSER</b>	1046901	0 to 725 psi	Silicone, Polyurethane, MS Polymer Adhesives	290 ml cartridges 300 ml cartridges 310 ml cartridges	10,000 to 1,000,000	Yes	Use with High Pressure Dispense Valve (sold separately) – see below	

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
VALVES & PUMPS	<b>HIGH VISCOSITY FLUID &amp; PASTE VALVES</b>								
	 <b>VA26 DISPENSE VALVE – 50 BAR</b>	1960414	High Viscosity Fluid and Paste Valves	10,000 to 1,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
 <b>HIGH PRESSURE DISPENSE VALVE – 150 BAR</b>	1153502	500,000 to 2,000,000 cP		Yes			No		

ITEMS IN RED = Source's PICK or NEW

Your Source for Motion Control Robot Dispense Systems. See page 169.

**EQUIPMENT** – Henkel is a full-service supplier of LOCTITE® branded equipment and offers a wide variety of equipment services to its customers. **For more LOCTITE® branded equipment, go to page 163.**  
 Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or call 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*

# Windshield Glass Installation (DGX)



## Your Application

### ARE YOU BONDING OR SEALING?

Cold Applied (No Heat Required)

Fast Return to Service

Primerless

## Solution

**TEROSON®  
PU 9096™ PL**

**TEROSON®  
PU 8597™ HMLC**

**TEROSON®  
PU 8599™**

<b>Tensile Strength (psi)</b>	1,000	1,300	1,200
<b>Drive-Away Time</b>	4 hrs. without airbags	2 hrs. with airbags/ 1 hour without airbags	15 min. with airbags
<b>Feature</b>	Primerless, Cold Applied	Cold Applied	Very Fast, Warm Applied
<b>Skin Formation (minutes)</b>	20	25	20

## Product Description

TEROSON® branded products have been used in leading edge direct glazing (DGX) application solutions for more than 20 years. DGX is the bonding and sealing of front windshields, side and rear glass to vehicle assemblies. Our DGX products are sag-resistant with high elasticity, high tensile strength and fast curing rates. The TEROSON® DGX line include adhesives/sealants that are polyurethane and modified silane polymer, which is free of isocyanates and has high UV resistance.

### TEROSON® PU 9096™ PL Direct Glazing Sealant

#### Polyurethane Adhesive/Sealant

A primerless, cold applied polyurethane. High green strength. 4-hour drive away time without airbags.

P/N	Package Size
1377641	310 ml cartridge

### TEROSON® PU 8597™ HMLC Direct Glazing Sealant

#### Polyurethane Adhesive/Sealant

A cold applied, high modulus, low conductivity polyurethane. Primer recommended for glass adhesion. 2-hour drive away time with airbags; 1 hour without airbags.

P/N	Package Size
1377642	310 ml cartridge

### TEROSON® PU 8599™ Direct Glazing Sealant

#### Polyurethane Adhesive/Sealant

A warm applied, very fast-curing polyurethane. Primer recommended for glass adhesion. 15-minute drive away time.

P/N	Package Size
1377643	310 ml cartridge
1371250	25 kg pail
1377390	245 kg drum



## TEROSON® Windshield Glass Installation Adhesive Properties Chart






TEROSON® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURE	CHEMISTRY	SHORE HARDNESS	TENSILE STRENGTH	ELONGATION	SKIN FORMATION	DRIVE AWAY TIME (WITH/WITHOUT AIRBAGS)	AGENCY APPROVALS
<b>PU 9096™ PL</b>	1377641	310 ml cartridge	Primerless, cold applied	Polyurethane	A 60	1,000 psi	350%	20 minutes	4 hours	N/A
<b>PU 8597™ HMLC PU 8517H™ PRIMER</b>	1377642	310 ml cartridge	Cold applied	Polyurethane	A 70	1,300 psi	350%	25 minutes	2 hours/1 hour	N/A
<b>PU 8599™</b>	1377643 1371250 1377390	310 ml cartridge 25 kg pail 245 kg drum	Very fast, warm applied	Polyurethane	A 60	1,200 psi	300%	20 minutes	15 minutes	N/A

## TEROSON® Windshield Glass Installation Primer Properties Chart

TEROSON® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	FEATURE
<b>PU 8519™ P</b>	2032203	500 ml bottle	All-in-one primer and activator
<b>PU 8517H™</b>	1418667	250 ml bottle	Glass primer
<b>VR 20™</b>	1581028	1 liter bottle	Isopropanol-based cleaner
<b>SB 450™</b>	642844	1 liter bottle	Cleaner

ITEMS IN RED = Source's PICK or NEW

## Windshield Glass Installation (DGX) Equipment

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE/SIZE	USED TO DISPENSE	VISCOSITY	TYPE	CONSUMABLES – DISPENSE ACCESSORIES
EQUIPMENT & ACCESSORIES	 <b>HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER</b>	1714379	300 ml cartridges 250 ml tubes	MS Polymer Polyurethane	Medium to High	Pneumatic	Cartridge Accessories – Page 175
	 <b>POWERLINE II 300 ML DISPENSER</b>	960304	300/310 ml cartridge	MS Polymer Polyurethane	Medium to Very High	Pneumatic - mechanical	
	 <b>PRIMER APPLICATORS</b>	142245	N/A	MS Polymer Polyurethane	All	Manual	
	 <b>CARTRIDGE OPENER</b>	395397	N/A	MS Polymer Polyurethane	N/A	Manual	
	 <b>CUTTING WIRE FOR GLASS REMOVAL</b>	149361	N/A	N/A	N/A	Manual	



# Lubricating

<b>81</b>	<b>LUBRICATING</b>
83	Anti-Seize
87	Lubricants

## WHY USE A LOCTITE® LUBRICANT?

LOCTITE® Lubricants offer protection for industrial plants and equipment. This range includes organic, mineral and synthetic-based products meeting the requirements of industrial applications.

## WHAT IS THE FUNCTION OF A LUBRICANT?

The typical function of a lubricant is to protect against friction and wear. Lubricants are also used to protect against corrosion by displacing moisture and leaving a continuous coating on the part.

## WHAT CONSIDERATIONS ARE IMPORTANT WHEN CHOOSING A LUBRICANT?

When choosing a lubricant, it is important to consider the intended application as well as the environmental conditions to which the assembly will be exposed. Environmental conditions are critical to the successful selection of the right lubricant product. Factors including high temperature, harsh chemicals and contaminants may have an adverse effect on the expected lubricant performance.

## KEY BENEFITS OF USING A LOCTITE® LUBRICANT:

- Improved high temperature performance
- Higher lubricity
- Provides lubrication in extreme environments
- Superior water-washout properties
- Higher purity
- Protects against rust, corrosion, seizing and galling

## ANTI-SEIZE

LOCTITE® anti-seize products provide protection against rust, corrosion, seizing and galling, as well as lubrication. Anti-seizes are typically the products of choice for high temperature

applications because of their unique ability to provide protection in extreme temperature conditions. Each product contains a combination of solid lubricating agents resulting in different high temperature limits and lubricities. These are the two major factors in choosing the right anti-seize product for your application.

## METAL-FREE

The “Metal-Free” products utilize nonmetallic fillers to achieve high temperature resistance properties as well as lubricity. These fillers typically provide a much higher temperature resistance than that of metallic fillers and, due to the less abrasive nature of these fillers, they also typically provide lower K-values, resulting in higher lubricity.

## APPLICATIONS:

- Pump
- Gearbox
- Hoists
- Conveyor Systems
- Overhead Doors
- Way Lube
- Seals

## INDUSTRIES:

- Mining
- Wastewater
- Power Generation
- Food Processing
- Pulp and Paper
- Beverage



# Lubricating



Henkel Adhesive and Sealant Product Specialists are available to assist you. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

# Anti-Seize



## Your Application

### HELPFUL HINT

- Look for this icon for Metal-Free LOCTITE® Anti-Seize Products.



## WHAT TYPE OF ANTI-SEIZE DO YOU REQUIRE?

### General-Purpose

Up to 1600°F  
(871°C)

Up to 1800°F  
(982°C)

Up to 2400°F  
(1315°C)

Available in a Paste  
or Semisolid Stick

Available in a Paste  
or Semisolid Stick

LB 8150™  
LB 8151™  
LB 8060™

LB 8007™  
LB 8008™  
LB 8065™

LB 771™  
LB 8507™

## Solution

Color	Silver	Copper	Silver
Solid Lubricating Agent	Graphite/Aluminum	Copper/Graphite	Nickel/Graphite
Torque Coefficient*	0.18	0.16	0.13
Temperature Range	-20°F to 1600°F (-29°C to 871°C)	-20°F to 1800°F (-29°C to 982°C)	-20°F to 2400°F (-29°C to 1315°C)
Metal-Free	No	No	No

## Product Description

### LOCTITE® LB 8150™, LB 8151™, LB 8060™ Anti-Seize

Heavy-duty, temperature resistant, petroleum-based lubricant compound fortified with graphite and metallic flake. Inert and will not evaporate or harden in extreme cold or heat. For use in assemblies up to 1600°F (871°C).

#### CFIA Listed.

P/N	Package Size
38181	7 g pouch
1999141	7 fl. oz. brush-top tube
80209	4 oz. brush-top can
76732	8 oz. brush-top can
76764	1 lb. brush-top can
80206	1 gallon can
76775	5 gallon pail

P/N	Package Size
LOCTITE® LB 8151™	
76759	12 oz. net wt. aerosol

P/N	Package Size
LOCTITE® LB 8060™	
37230	20 g stick

### LOCTITE® LB 8007™, LB 8008™, LB 8065™ C5-A® Copper-Based Anti-Seize

Exclusive formula suspends copper and graphite in a high quality grease. Protects metal parts from rust, corrosion, galling and seizing at temperatures to 1800°F (982°C). **CFIA Listed Stick.**

P/N	Package Size
51299	2 g pouch
51277	7 g pouch
51001	1 oz. tube
51002	4 oz. tube
51144	4 oz. brush-top can
51147	8 oz. brush-top can
51005	10 oz. brush-top can
51004	13 oz. cartridge
51006	1 lb. can
51007	1 lb. brush-top can
39643	1 lb. brush-top metal can
51008	2.5 lb. can
51009	8 lb. can
38584	25 lb. pail
51011	42 lb. pail
51146	425 lb. drum
1999559	7 fl. oz. brush-top tube

P/N	Package Size
LOCTITE® LB 8007™	
1786073	12 oz. net wt. aerosol
LOCTITE® LB 8065™	
37229	20 g stick

### LOCTITE® LB 771™, LB 8507™ Nickel Anti-Seize

Copper-free. Recommended for stainless steel and other metal fittings. For preventing corrosion, seizing and galling in harsh chemical environments and temperatures to 2400°F (1315°C).

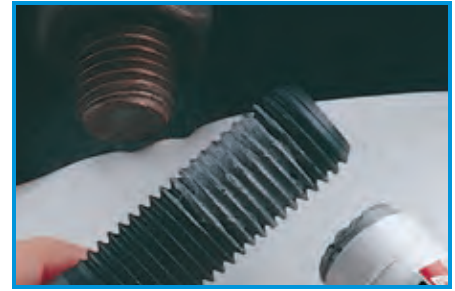
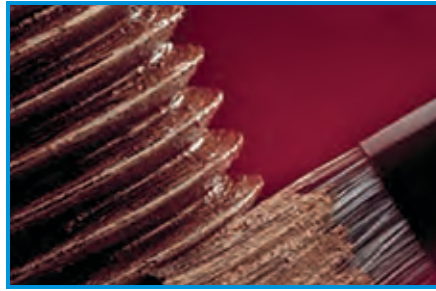
P/N	Package Size
77124	8 oz. brush-top can
1852753	12 oz. net wt. aerosol
51102	1 lb. can
77164	1 lb. brush-top can
51152	8 lb. can
77175	5 gallon pail




### ANTI-SEIZE IS OFTEN...

- Used as a gasket release agent in instances where reuse of the gasket is desirable
- Recommended for use on spark plug threads and electrical connections

HELPFUL HINTS

\* K value on steel nuts and bolts.



Stainless Steel and Titanium Applications	Soft Metal Applications	Incidental Food Contact	Water-Resistant
Available in a Paste or Semisolid Stick			
 <b>LB 8009™</b> <b>LB 8070™</b>	<b>LB 8044™</b>	 <b>LB 8014™</b>	 <b>LB 8023™</b>
Grey	Grey	White	Black
Graphite/Calcium Fluoride	Zinc	White Lubricating Solids	Calcium Sulfonate
0.16	0.15	0.13	0.18
-20°F to 2400°F (-29°C to 1315°C)	-20°F to 750°F (-29°C to 399°C)	-20°F to 750°F (-29°C to 399°C)	-20°F to 2400°F (-29°C to 1315°C)
Yes	No	Yes	Yes

**LOCTITE® LB 8009™ and LB 8070™ Heavy Duty Anti-Seize**  
**Metal-Free**  
 Excellent lubricity. Provides outstanding lubrication to all metals including stainless steel, aluminum and soft metals up to 2400°F (1315°C).  
**CFIA Listed.**

**P/N Package Size**

51609 1 oz. tube  
 51605 9 oz. brush-top can  
 51606 18 oz. brush-top can  
 51607 2.3 lb. can  
 51608 45 lb. pail  
 1999560 7 fl. oz. brush-top tube

**P/N Package Size**

**LOCTITE® LB 8070™**  
 41205 20 g

**LOCTITE® LB 8044™ Zinc Anti-Seize**  
 Protects aluminum and ferrous surfaces from seizure and corrosion up to 750°F (399°C).

**P/N Package Size**

39901 1 lb. can

**LOCTITE® LB 8014™ Food Grade Anti-Seize**  
**Metal-Free**  
 Prevents seizure, galling and friction in stainless steel and other metal parts up to 750°F (399°C).  
**NSF H1 rated for incidental food contact. CFIA Listed.**

**P/N Package Size**

1167237 8 oz. brush-top can  
 1169241 2 lb. can  
 1170163 40 lb. pail

**LOCTITE® LB 8023™ Marine Grade Anti-Seize**  
 Formulated to protect assemblies exposed directly or indirectly to fresh water and salt water, this anti-seize works especially well in high humidity conditions. It has excellent lubricity, superior water wash-out spray resistance and prevents galvanic corrosion.  
**ABS Approved.**

**P/N Package Size**

34395 8 oz. brush-top can  
 34026 16 oz. brush-top can  
 1999556 7 fl. oz. brush-top tube

# Anti-Seize



## LOCTITE® Anti-Seize Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	TEMPERATURE RESISTANCE	COLOR	K VALUE*	
GENERAL-PURPOSE	<b>LB 8008™</b>	51299	2 g pouch	1800°F (982°C)	Copper	0.16	
		51277	7 g pouch				
		51001	1 oz. tube				
		51002	4 oz. tube				
		51144	4 oz. brush-top can				
		51147	8 oz. brush-top can				
		51005	10 oz. brush-top can				
		1786073	12 oz. net wt. aerosol				
		51004	13 oz. cartridge				
		1999559	7 fl. oz. brush-top tube				
51006	1 lb. can						
51007	1 lb. brush-top can						
39643	1 lb. brush-top metal can						
51008	2.5 lb. can						
51009	8 lb. can						
38584	25 lb. pail						
51011	42 lb. pail						
51146	425 lb. drum						
	<b>LB 8065™</b>	37229	20 g stick				
	<b>LB 8150™</b>	38181	7 g pouch	1600°F (871°C)	Silver	0.18	
		1999141	7 fl. oz. brush-top tube				
		80209	4 oz. brush-top can				
		76732	8 oz. brush-top can				
		76764	1 lb. brush-top can				
	80206	1 gallon can					
	76775	5 gallon pail					
	<b>LB 8151™</b>	76759	12 oz. net wt. aerosol				
	<b>LB 8060™</b>	37230	20 g stick				
	<b>LB 771™</b>	77124	8 oz. brush-top can	2400°F (1315°C)	Silver	0.13	
		51102	1 lb. can				
		77164	1 lb. brush-top can				
		51152	8 lb. can				
	77175	5 gallon pail					
	<b>LB 8507™</b>	1852753	12 oz. net wt. aerosol				
HIGH PERFORMANCE	<b>LB 8009™</b>	51609	1 oz. tube	2400°F (1315°C)	Grey	0.16	
		51605	9 oz. brush-top can				
		51606	18 oz. brush-top can				
		1999560	7 fl. oz. brush-top tube				
51607		2.3 lb. can					
51608	45 lb. pail						
	<b>LB 8070™</b>	41205	20 g stick				
	<b>LB 8023™</b>	34395	8 oz. brush-top can	2400°F (1315°C)	Black	0.18	
		1999556	7 fl. oz. brush-top tube				
	34026	16 oz. brush-top can					
	<b>LB 8036™</b>	34517	8 oz. brush-top can	2000°F (1093°C)	White	0.16	
		34518	16 oz. brush-top can				
SPECIALTY	<b>LB 8014™</b>	1167237	8 oz. brush-top can	750°F (400°C)	White	0.13	
		1169241	2 lb. can				
		1170163	40 lb. pail				
		<b>LB 8504™</b>	51084	1 lb. can	900°F (482°C)	Black	0.13
		<b>LB 8012™</b>	1852755	12 oz. net wt. aerosol	750°F (400°C)	Black	0.11
	51048		8 oz. brush-top can				
	51049		1 lb. brush-top can				
	51145		15 lb. can				
	<b>LB 8700™</b>	51094	1 lb. can	750°F (400°C)	Black	0.13	
	<b>LB 8044™</b>	39901	1 lb. can	750°F (400°C)	Grey	0.15	
HIGH PURITY	<b>LB 8013™</b>	51272	8 oz. brush-top can	2400°F (1315°C)	Silver	0.16	
		51270	1 lb. brush-top can				
		51273	2 lb. can				
		<b>LB N-5000™</b>	51346	1 oz. tube	2400°F (1315°C)	Silver	0.15
	51243		8 oz. brush-top can				
51269	1 lb. brush-top can						
51246	2 lb. can						
51245	8 lb. can						
	<b>HIGH PERFORMANCE LB N-5000</b>	51572	1 lb. brush-top can	2400°F (1315°C)	Silver	0.15	
	<b>LB N-1000™</b>	51115	8 oz. brush-top can	1800°F (982°C)	Copper	0.17	
		51116	1 lb. can				
		51117	2 lb. can				

ITEMS IN RED = Source's PICK or NEW

\* See K Value on next page.

## LOCTITE® SF 7617™ INDUSTRIAL HAND WIPES

Clean hands anywhere! Quick and easy to use – no rinsing, drying or residue. Each 9 ½ in. x 12 in. towel is premoistened with powerful citrus-scented cleaning formula. Towels are abrasive enough to scrub off the toughest grease and grime.



**ADDITIONAL RESOURCES**

Item # 34943 75 count  
34944 130 count

## LOCTITE® Anti-Seize Applications Chart

	LOCTITE® PRODUCT	MAXIMUM ANTI-SEIZE PROPERTIES	FOR MAXIMUM LUBRICITY	FOR LOW SPEEDS, HIGH LOADS	EXTREME HIGH TEMPERATURE RESISTANCE (TO 2000°F-2400°F)	EXTREME CHEMICAL RESISTANCE	ELECTRICALLY CONDUCTIVE	FOR ALUMINUM/ SOFT METALS	FOR STAINLESS STEEL	METAL-FREE FORMULATION	COPPER-FREE FORMULATION	KEY SPECIFICATIONS & AGENCY APPROVALS
GENERAL-PURPOSE	LB 8008™	△					△	△	△			CFIA Listed (stick)
	LB 8150™	△					△	△	△			CFIA Listed
	LB 771™	△			▲	▲	△		△		▲	N/A
HIGH PERFORMANCE	LB 8009™	▲			▲	△	△	△	▲	▲	▲	N/A
	LB 8023™	▲			▲			△	▲	▲	▲	ABS
	LB 8036™	△			▲			△	△	▲	▲	N/A
SPECIALTY	LB 8014™	■						△	▲	▲	▲	NSF H1, CFIA Listed
	LB 8504™	■				△	▲	△		▲	▲	N/A
	LB 8012™	■	▲	▲					▲	▲	▲	N/A
	LB 8700™	■	△	△					▲	▲	▲	N/A
	LB 8044™	■					■	▲	△			N/A
HIGH PURITY	LB 8013™	▲			▲	△	△		△	▲	▲	N/A
	LB N-5000™	△			▲	▲	△		△		▲	N/A
	HIGH PERFORMANCE LB N-5000™	▲	▲		▲	▲	△		△		▲	N/A
	LB N-1000™	△					△		△			N/A

ITEMS IN RED = Source's PICK or NEW

△ Good Choice ▲ Preferred Choice ■ Acceptable Choice

## TORQUE GUIDE

Proper clamp load is an essential part of any bolted assembly for trouble-free operations. Torquing either nut or bolt creates the clamp load. An anti-seize lubricant used on a bolt helps to develop greater clamp load for the same torque compared to a non-lubricated bolt. An additional benefit is greater uniformity in clamp load among a series of bolts. The relationship between torque and clamp load is expressed in the following equation:  $T = KFD$ .

Where:

T = Torque (in.-lb., ft.-lb., N-m)

F = Clamp Load (lb., N)

D = Nominal diameter of bolt (in., ft., m)

K = Torque coefficient or nut factor, determined experimentally

**K Factors:** K factors are obtained on Grade 8, ½ in. steel bolts and grade 5 nuts by a test procedure that measures torque tension properties. Lubricant was applied to the bolt threads and both faces of the washer.

See the Properties Chart for the torque coefficient or K value for the anti-seize compounds.

Henkel Corporation believes that this data fairly represents performance to be expected. However, Henkel makes no warranty of specific performance on any individual fastener. In critical applications, it is necessary to determine K values independently.

**PLEASE NOTE:** There are two "coefficients" used to express the relationship between torque and tension: torque coefficient (also called "nut factor") is the most commonly used. A different concept is the "friction coefficient," which has a value of 2/3 (or 67%) of the torque coefficient.

**ADDITIONAL RESOURCES**

# Lubricants



## Your Application

- Temperature resistant
- Thermal stability
- Penetrate and free corroded assemblies

## HIGH PERFORMANCE LUBRICATION

### Dry Film Lubricant

### Aerosol

#### LB 8017™

#### LB 8211™

#### LB 8108™

## Solution

	LB 8017™	LB 8211™	LB 8108™
Base Oil	Molybdenum Disulfide	PTFE†	PAO†
Viscosity	N/A	N/A	N/A
Temperature Range	-20°F to 750°F (-29°C to 398°C)	-15°F to 500°F (-26°C to 260°C)	-40°F to 500°F* (-40°C to 260°C)
Four Ball Wear Test (mm) (ASTM D-2266)	N/A	N/A	N/A
Food Grade	N/A	N/A	NSF H1

## Product Description

### LOCTITE® LB 8017™ Moly Dry Film Lubricant

Solid film lubricant for sliding surfaces and slow-moving parts. Temperature resistant up to 750°F (399°C) as a dry film lubricant, 2400°F (1315°C) as an anti-seize. Won't squeeze out, burn off, or pick up dirt.

P/N	Package Size
1786074	12 oz. net wt. aerosol
39896	1.3 lb. can
39897	10 lb. can

### LOCTITE® LB 8211™ Krytox® RFE Dry Film Lubricant

High performance, synthetic lubricant designed to provide long-lasting lubrication for parts that require a dry, thin lubricating film. LOCTITE® LB 8211™ Krytox® RFE Dry Film Lubricant provides excellent lubrication properties over a broad temperature range.

P/N	Package Size
30138	8 oz. net wt. aerosol

### LOCTITE® LB 8108™ High Performance Synthetic Grease

NLGI Grade 2/Severe Duty GC-LB Grease provides protection against equipment exposed to a wide range of temperatures. Use as a lubricant and protective anti-rust film on bearings and machine parts, or as a release agent on gaskets and seals. **NSF H1 rated for incidental food contact.**

P/N	Package Size
1906102	10.1 oz. net wt. aerosol

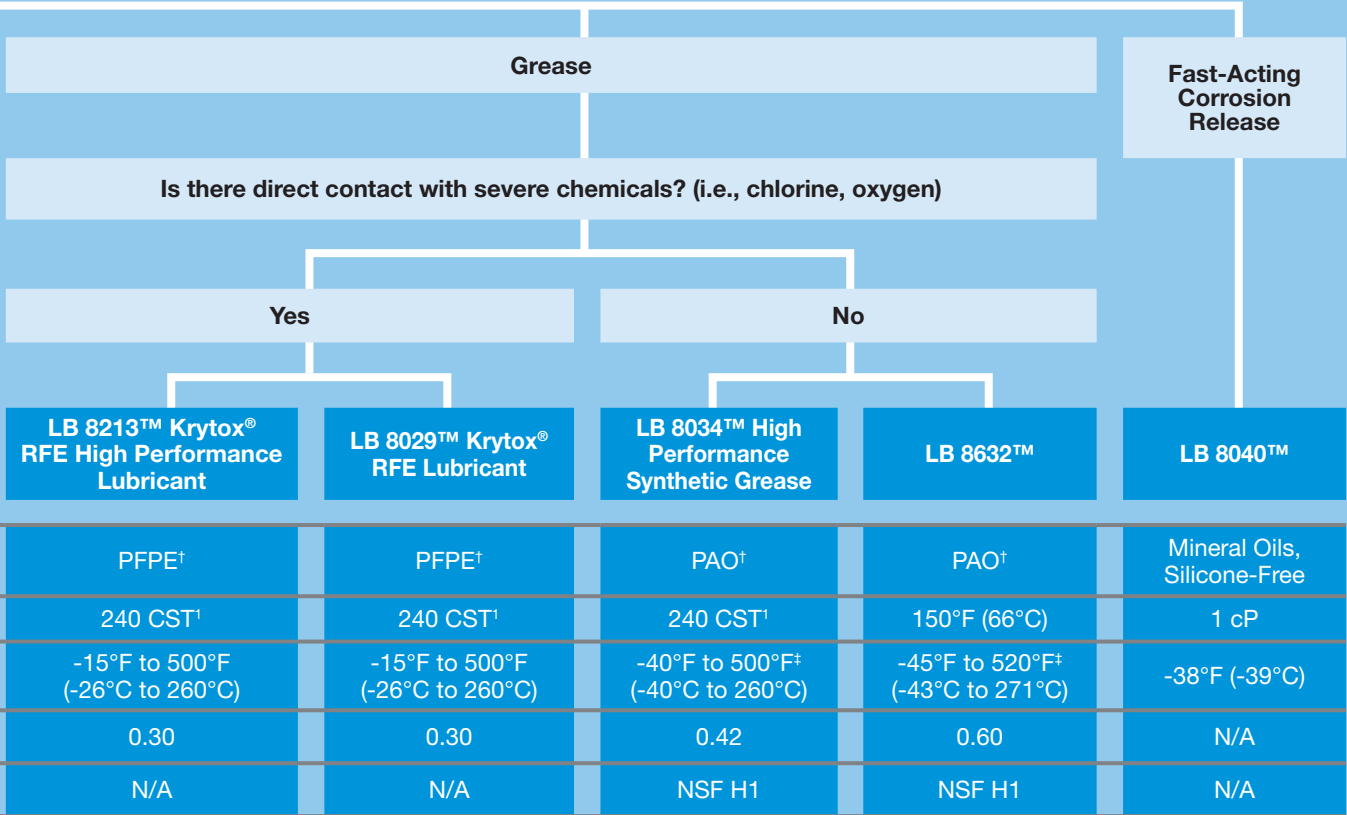
† PTFE = PolyTetraFluoroEthylene, PFPE = PerFluoroPolyEther, PAO = PolyAlphaOlefin.

\* 400°F (204°C) – Continuous, 500°F (260°C) – Intermittent.

‡ 420°F (216°C) – Continuous, 520°F (271°C) – Intermittent.

<sup>1</sup> CST at 104°F (40°C).





**LOCTITE® LB 8213™ Krytox® RFE High Performance Lubricant**

High performance synthetic grease provides long-lasting lubrication for all types of moving and/or sliding parts. Compatible with all plastics, elastomers and metals. Nonflammable, chemically resistant and oxygen compatible.

P/N	Package Size
29711	2 oz. tube
29709	16 oz. cartridge

**LOCTITE® LB 8029™ Krytox® RFE Lubricant**

Synthetic grease formulated specifically for severe environments. Great for lubricating O-rings. Excellent lubrication properties over a broad temperature range and in chlorine processing. **NLGI Grade 2 grease.**

P/N	Package Size
29710	2 oz. tube
31361	16 oz. cartridge

**LOCTITE® LB 8034™ High Performance Synthetic Grease**

NLGI Grade 2/Severe Duty GC-LB Grease provides protection against equipment exposed to a wide range of temperatures. Use as a lubricant and protective anti-rust film on bearings and machine parts, or as a release agent on gaskets and seals. **NSF H1 rated for incidental food contact. CFIA Listed.**

P/N	Package Size
36781	3 oz. tube
36782	14 oz. cartridge
36783	400 g can
37061	30 lb. pail

**LOCTITE® LB 8632™ Clear High Performance Synthetic Grease**

Lasts four times longer than petroleum-based lubricants. Withstands temperatures up to 420°F (520°F intermittent). Contains PTFE for added protection against friction and wear. Nonflammable. Contains no ODCs. Clear in color. **NLGI Grade 2 grease. NSF H1 rated for incidental food contact. CFIA Listed.**

P/N	Package Size
39341	3 oz. tube
39342	400 g cartridge

**LOCTITE® LB 8040™ Fast Acting Corrosion Release**

The solution for releasing seized or corroded parts. Instantly freezes seized and rusted parts (bolts, nuts, studs) down to -38°F (-39°C). The shock-freeze causes microscopic cracks in the layer of rust, allowing the lubricating ingredient to wick directly into the rust. Dismantle parts in 1 to 2 minutes.

P/N	Package Size
996456	13.52 oz. net wt. aerosol

# Lubricants



## LOCTITE® ViperLube® Synthetic Lubricant Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	TEMPERATURE RESISTANCE	TYPE OF LUBRICANT	VISCOSITY RANGE	POUR POINT (ASTM D 97)	FOUR BALL TEST	NLGI RATING	DROP POINT	SPRAY TEST (ASTM B111)	AGENCY APPROVALS	
SYNTHETIC / HIGH PERFORMANCE	LOCTITE® LB 8034™ HIGH PERFORMANCE SYNTHETIC GREASE	36780 36781 36782 36783 37061	1 cc tube 3 oz. tube 14 oz. cartridge 400 g can 30 lb. pail	400°F (204°C) continuous  500°F (260°C) intermittent	Synthetic hydrocarbon (polyalphaolefin-based)	240 CST	N/A	0.45 mm (ASTM D 2266)	2	500°F (260°C) (ASTM D 556)	Pass	NSF H1, CFIA Listed
	LOCTITE® LB 8632™ CLEAR HIGH PERFORMANCE SYNTHETIC GREASE	39341 39342	3 oz. tube 400 g cartridge	420°F (216°C) continuous 520°F (271°C) intermittent	Synthetic hydrocarbon (polyalphaolefin-based)	N/A	N/A	0-60 mm (ASTM D 2266)	2	<590°F (<310°C) (ASTM D 2265)	N/A	NSF H1, CFIA Listed

## Grease Compatibility Chart

THICKENER TYPE	CALCIUM SULFONATE VIPERLUBE®	SILICA GEL VIPERLUBE® CLEAR	LITHIUM SOAP	LITHIUM COMPLEX	ALUMINUM COMPLEX	CALCIUM COMPLEX	BARIUM SOAP	SODIUM SOAP	BENTONE	POLYUREA
CALCIUM SULFONATE VIPERLUBE®		SC	FC	FC	NC	FC	SC	NC	NC	NC
SILICA GEL VIPERLUBE® CLEAR	SC		FC	FC	FC	NC	FC	NC	FC	NA
LITHIUM SOAP	FC	FC		FC	NC	FC	SC	NC	NC	SC
LITHIUM COMPLEX	FC	FC	FC		NC	FC	SC	NC	NC	SC
ALUMINUM COMPLEX	NC	FC	NC	NC		NC	NC	SC	NC	NC
CALCIUM COMPLEX	FC	NC	FC	FC	NC		SC	NC	NC	SC
BARIUM SOAP	SC	FC	SC	SC	NC	SC		NC	NC	NA
SODIUM SOAP	NC	NC	NC	NC	SC	NC	NC		NC	NC
BENTONE	NC	FC	NC	NC	NC	NC	NC	NC		NC
POLYUREA	NC	NA	SC	SC	NC	SC	NA	NC	NC	

FC = Fully Compatible

NC = Not Compatible (Mixtures soften severely and do not remain grease-like.)

SC = Somewhat Compatible (Mixtures soften but remain grease-like.)

NA = Not Available

## Krytox® RFE Lubricant Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	TEMPERATURE RESISTANCE	NON-FLAMMABLE	HIGH LOAD CAPACITY	CORROSION INHIBITORS	COMPATIBLE WITH ALL PLASTICS, METALS & ELASTOMERS	CHEMICALLY RESISTANT	OXYGEN COMPATIBLE*	THERMALLY STABLE	WATER/STREAM RESISTANT	NLGI GRADE
SPECIALTY OILS AND LUBRICANTS	LOCTITE® LB 8209™ KRYTOX® RFE PFPE LUBRICANT (O-RING)	29710 31361	2 oz. tube 16 oz. cartridge	-15°F to 500°F (-26°C to 260°C)	•	•	•	•	•	•	•	2
	LOCTITE® LB 8213™ KRYTOX® RFE HIGH PERFORMANCE LUBRICANT	29711 29709	2 oz. tube 16 oz. cartridge	-15°F to 500°F (-26°C to 260°C)		•	•	•	•	•	•	2
	LOCTITE® LB 8211™ KRYTOX® RFE DRY FILM LUBRICANT	30138	8 oz. net wt. aerosol	-15°F to 500°F (-26°C to 260°C)	Once film is dry			•	•	•	Water-repellent	N/A

\* Per BAM 8104-411 & MSFC 106B under specific conditions. Test the proposed application thoroughly before use.

- Dry film lubricants are an ideal choice for “unclean” environments where there is potential for dirt and other contaminants to come in contact with the product. Contaminants will not stick like they would with a standard grease.

HELPFUL HINTS

# LOCTITE® Lubricant Applications Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE/SIZE	TEMPERATURE RESISTANCE	FOOD PROCESSING EQUIPMENT	CLOSE-FITTING PARTS	HIGH TEMP	DIELECTRIC COMPOUND	ELECTRICAL EQUIPMENT	GEAR, BEARINGS, CABLE & CONVEYORS	HYDRAULIC UNITS (NOT BRAKES)	FOR HIGH SPEED BEARINGS	FOR LOW SPEEDS & HIGH LOADS	CHAIN-DRIVEN EQUIPMENT	SOLID FILM
SYNTHETIC / HIGH PERFORMANCE	LB 8632™ CLEAR HIGH PERFORMANCE SYNTHETIC GREASE	39341 39342	3 oz. tube 400 g cartridge	420°F (216°C) continuous 520°F (271°C) intermittent	▲		▲		▲	▲		▲	▲	▲	
SPECIALTY OILS & LUBRICANTS	LB 8421™ GEAR / CHAIN LUBE	1906177	12 oz. net wt. aerosol	250°F (121°C)						▲				▲	
	LB 8801™ SILICONE LUBRICANT	51360 81246	5.3 oz. tube 13 oz. net wt. aerosol	400°F (204°C)	▲		■			△				△	
	LB 8017™ MOLY DRY FILM LUBRICANT	1786074 39896 39897	12 oz. net wt. aerosol 1.3 lb. can 10 lb. can	750°F (400°C)			△	△	▲				△	▲	▲
	LB 8713™ SUPER PENETRATING OIL	1865406	12.25 oz. net wt. aerosol	250°F (121°C)		△									
	LB C-200™ HIGH TEMPERATURE SOLID FILM LUBRICANT	39893 39894	1.3 lb. can 10 lb. can	2400°F (1315°C)			▲	△					△		▲
	LB 8711™ PENETRATING OIL	51221	12 oz. net wt. aerosol	100°F (38°C)		△									
	LB 8040™ FAST ACTING CORROSION RELEASE	996456	13.52 oz. net wt. aerosol	N/A		△									
PETROLEUM-BASED GREASES	LB 8042™ WHITE LITHIUM GREASE	30530	1.5 oz. tube	380°F (193°C) (dropping point)						△			▲	△	
	LB 8529™ LITHIUM GREASE	1906122	10.75 oz. net wt. aerosol												
	LB 8423™ DIELECTRIC GREASE	30536 37535	0.33 oz. tube 3 oz. tube	400°F (204°C)			■	■							
	LB 8219™ EXTREME PRESSURE GREASE	51242	14.5 oz. cartridge	450°F (232°C)			■					▲	▲		
	LB 8104™ FOOD GRADE GREASE	51252	14.5 oz. cartridge	450°F (232°C)	▲		■					▲			

△ Good Choice    ▲ Preferred Choice    ■ Acceptable Choice

## CARTRIDGE ACCESSORIES

Go to [page 175](#) to see LOCTITE® branded cartridge accessories as well as other LOCTITE® Branded Consumables.

Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or call 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*



# Machining Compounds

91

## MACHINING COMPOUNDS

### WHY USE LOCTITE® CLOVER® MACHINING COMPOUNDS?

LOCTITE® Clover® Machining Compounds allow final finishing of metal surfaces not practical with mechanical methods alone. These abrading compounds are abrasive pastes designed especially for the cutting, smoothing and finishing of metal surfaces. They are silicon carbide-filled and are used as a supplemental process to grinding, milling, boring and electrical discharge machining (EDM) on high- or low-tensile-strength materials, including forged or hardened gears. These compounds produce an ultra-flat surface but not a polished one.

### WHAT CONSIDERATIONS ARE IMPORTANT WHEN CHOOSING A MACHINING COMPOUND?

Grit size directly relates to the finish left on the metal surface. A very coarse grit, such as our 54 grit, will quickly remove metal from the surface and leave a somewhat rough finish. To achieve a smoother finish, a smaller grit size should be used, such as 1,000 grit. This compound will fill the smaller metal voids and leave a smoother finish.

Henkel Adhesive and Sealant Product Specialists are available to assist you. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

### KEY BENEFITS OF USING A LOCTITE® CLOVER® MACHINING COMPOUND:

- Premixed and ready to use for consistent performance.
- Manufactured from premium abrasive grits; only virgin silicon carbide abrasives, carefully sized, are used.
- Water-soluble – the compound clings to blades for superior honing action, but washes away easily (Pat Gel® Water Mix only).

### APPLICATIONS:

- Pumps
- Gears
- Valves
- Machining
- Sharpening
- Precision Fitting

### REMOVAL HINTS

- LOCTITE® Clover® Machining Compounds can be removed using the same solvent in which they are carried.
- LOCTITE® Clover® Grease Mix products can be removed using a petroleum-based solvent: LOCTITE® ODC-Free Cleaner & Degreaser.
- LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix can be removed with water.
- Once LOCTITE® Clover® products are removed, dry the area thoroughly and apply oil or grease to the metal to prevent corrosion.

HELPFUL HINTS



# Machining Compounds

## Grade & Grit Selector Guide

GRADE	GRIT	TEXTURE & USE	AVERAGE PARTICLE SIZE OF ABRASIVE GRAINS	
			1/1,000 INCHES	MICRONS (0.001 MM)
7A	1,200	<b>EXTREMELY FINE:</b> For polishing and high precision lapping	0.12	3
6A	1,000		0.20	5
5A	800		0.38	9
4A	600	<b>VERY FINE:</b> For fine polishing and lapping	0.56	14
3A	500		0.68	17
2A	400		0.90	23
1A	320	<b>FINE:</b> For finishing, valve lapping bearings, dies and gauges	1.28	33
A	280		1.75	44
B	240	<b>MEDIUM FINE:</b> For cylinder lapping	2.48	63
C	220		2.60	66
D	180	<b>MEDIUM:</b> General-purpose for controlled metal removal	3.40	86
NC	150		4.80	122
E	120	<b>COARSE:</b> For the initial "cut," fast removal of metal	5.60	142
F	100		6.80	173
G	80		15.00	267

# Machining Compounds



## Your Application

## MACHINING AND LAPPING METALS

What type of metal removal is needed?

For the "Initial Cut" Fast Removal of Metal

General-Purpose for the Controlled Removal of Metal

For Cylinder Lapping

## Solution

Coarse

Medium

Medium Fine

Grade		G	F	E	D	C	B
Grit		80	100	120	180	220	240
Average Particle Size of Abrasive Grains	1/1000 in.	15.00	6.80	5.60	3.40	2.60	2.48
	Microns (0.001 mm)	267	173	142	86	66	63

## Product Description

### LOCTITE® Clover® Silicon Carbide Grease Mix

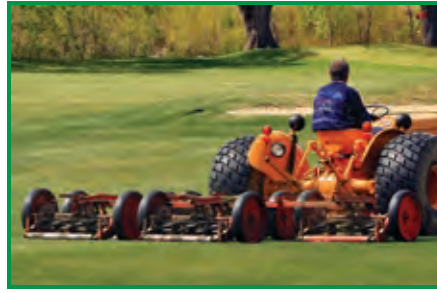
The standard abrasive paste for fast metal removal. Produces a smooth, flat surface but not a polished one. Leaves a rust-preventing film on lapped surfaces.

P/N	Package Size	Grit
39401	1 lb. can	Grade A – 280 Grit
39510	1 lb. can	Grade 1A – 320 Grit
39523	1 lb. can	Grade 2A – 400 Grit
39549	1 lb. can	Grade 4A – 600 Grit
39561	1 lb. can	Grade 5A – 800 Grit
39587	1 lb. can	Grade 7A – 1,200 Grit
39589	25 lb. pail	Grade 7A – 1,200 Grit
39413	1 lb. can	Grade B – 240 Grit
39426	1 lb. can	Grade C – 220 Grit
39439	1 lb. can	Grade D – 180 Grit
39463	1 lb. can	Grade F – 100 Grit
39473	1 lb. can	Grade G – 80 Grit

### LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix

Paste formulation for fast metal removal. Biodegradable, recommended for applications where cleanup with water is required.

P/N	Package Size	Grit
39406	1 lb. jar	Grade A – 280 Grit
39515	1 lb. jar	Grade 1A – 320 Grit
39528	1 lb. jar	Grade 2A – 400 Grit
39554	1 lb. jar	Grade 4A – 600 Grit
39566	1 lb. jar	Grade 5A – 800 Grit
39579	1 lb. jar	Grade 6A – 1,000 Grit
39592	1 lb. jar	Grade 7A – 1,200 Grit
39431	1 lb. jar	Grade C – 220 Grit
39444	1 lb. jar	Grade D – 180 Grit
39468	1 lb. jar	Grade F – 100 Grit
39478	1 lb. jar	Grade G – 80 Grit



For Finishing, Valve Lapping, Bearings, Dies and Gauges		For Fine Polishing and Lapping		For Polishing and High Precision Lapping		
Fine		Very Fine		Extremely Fine		
A	1A	2A	4A	5A	6A	7A
280	320	400	600	800	1,000	1,200
1.75	1.28	0.90	0.56	0.38	0.20	0.12
44	33	23	14	9	5	3

**LOCTITE® Clover® Duplex Packaging Kit**  
*Contains Clover Silicon Carbide Grease Mix Grades E/A*

LOCTITE® Clover® Silicon Carbide Grease Mix in two convenient grit sizes (120 and 280).

P/N	Package Size	Grit
39598	Kit – 4 oz. duplex can	Grade E/A – 120/280 Grit

**LOCTITE® Clover® Silicon Carbide Reel Sharpening Mix**  
*Water-Soluble*

This compound clings to blades for superior honing action. Washes away for easy cleanup.

P/N	Package Size	Grit
39712	25 lb. pail	Grade D – 180 Grit
39715	25 lb. pail	Grade F – 100 Grit

The LOCTITE® line of cleaners and degreasers includes both aqueous and solvent-based products, all of which are free of Class I ozone-depleting chemicals (ODCs). You can find LOCTITE® cleaners and degreasers in the Surface Cleaning section on [pages 129-132](#).

**ADDITIONAL RESOURCES**

# Potting, Molding & Encapsulating



95	POTTING, MOLDING & ENCAPSULATING
97	Epoxies & Polyurethanes
101	Silicones
104	Silicone Equipment
105	Hot Melts
107	Hot Melt Equipment
109	Low Pressure Molding

Potting and encapsulating compounds are used to provide mechanical reinforcement to housed assemblies, to fill large voids, and to protect components from the effects of exposure to chemicals, moisture, mechanical shock and vibration. Sealing components with potting and encapsulating compounds prevents corrosion and ensures long-term integrity of the device.

## VARIABLES TO CONSIDER WHEN SELECTING A POTTING OR ENCAPSULATING MATERIAL INCLUDE:

- Viscosity of uncured compound
- Dispensing requirements
- Device operating temperature
- Desired chemical resistance
- Desired thermal conductivity
- Desired flame retardance
- Hardness of cured product
- Overall cost

There are a variety of potting and encapsulating compounds to choose from – epoxy, hot melt, silicone and urethane. The thermal properties of epoxy and silicone systems make them ideally suited for applications exposed to temperatures above 257°F (125°C). If a soft, flexible material is needed, particularly at low temperatures, then a urethane, silicone or hot melt material may be used.

## WHAT IS THE BEST PRODUCT FOR MY APPLICATION?

The following chart may assist you when selecting a potting or encapsulating compound. This chart is intended to serve as a general guideline to help you determine which categories are best suited for your application. The data presented represents typical properties for each product category; however, individual product properties may differ. It is suggested that, based on the information provided, you consider at least the two best product categories that meet your application criteria. Individual product information can then be found on the pages that follow to help you narrow your search.

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; within Canada, call **1-800-263-5043**; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*





# Potting, Molding & Encapsulating

PERFORMANCE CONSIDERATIONS	POTTING & ENCAPSULATING COMPOUNDS			
	HOT MELTS	POLYURETHANES	EPOXIES	SILICONES
BENEFITS	Fast, large gap filling	Excellent toughness/flexibility	Wide range of formulations	Excellent temperature resistance
LIMITATIONS	Low heat resistance	Liquid adhesive sensitive to moisture	Mixing required	Low strength
TEMPERATURE RESISTANCE	-85°F to 257°F (-65°C to 125°C)	-85°F to 257°F (-65°C to 125°C)	-85°F to 356°F (-65°C to 180°C)	-85°F to 392°F (-65°C to 200°C)
FLUID RESISTANCE				
POLAR SOLVENTS <sup>1</sup>	Good (Polyolefins, Polyamides)	Good	Very Good	Good
NON-POLAR SOLVENTS <sup>2</sup>	Good (Polyamides)	Good	Excellent	Poor
HARDNESS	Semisoft	Soft	Rigid	Soft
FLEXIBILITY	High	High	Low	Very High
GLASS TRANSITION TEMPERATURE (TG)	Low	Low	High	Very Low
PERFORMANCE CONSIDERATIONS	POTTING & ENCAPSULATING COMPOUNDS			
	HOT MELTS	POLYURETHANES	EPOXIES	SILICONES
NUMBER OF COMPONENTS	1	2	2	1
CURE TEMPERATURE	Room Temperature (applied at elevated temperature)	Room Temperature	Room Temperature	UV/Room Temperature
GEL TIME				
AVERAGE	60 seconds	1 to 3 hours	1 to 3 hours	30 seconds
FASTEST	10 to 20 seconds	15 minutes	15 minutes	5 seconds
FULL CURE TIME	1 hour (or when cooled)	24 hours	24 hours	24 hours
DEPTH OF CURE	Unlimited	Unlimited	Unlimited	Shallow (<1.5 in.)
DISPENSING/CURING EQUIPMENT REQUIRED?	Yes	Yes	Yes	Yes
LIGHT CURE VERSIONS AVAILABLE?	No	No	Yes	Yes

<sup>1</sup> Examples of Polar Solvents: Water, Ethylene Glycol, Isopropyl Alcohol, Acetone.

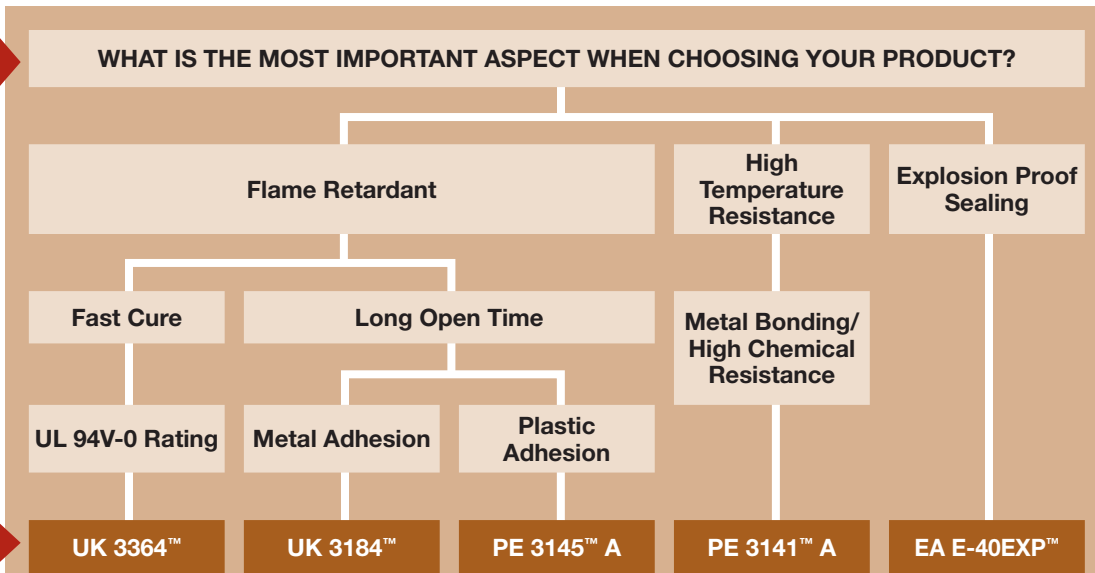
<sup>2</sup> Examples of Non-Polar Solvents: Motor Oil, Gasoline, Toluene, n-Heptane, ATF.

**PLEASE NOTE:** This chart should not be used to specify products without specific testing. It is recommended that you conduct on-part testing to ensure product performance before specifying any adhesives.

# Epoxies & Polyurethanes



## Your Application



## Solution

Key Feature	Fast Cure, 1:2 Mix Ratio	Flame Retardant	Flame Retardant	High Temperature	Chemical Resistant
Color	Black	White	Mixed: Black	Mixed: Black	Black
Viscosity cP (Resin/Hardener)	N/A	N/A	5,315/13,355	Mixed: 7,000	N/A

## Product Description

### LOCTITE® UK 3364™ Urethane Adhesive

Rigid two-component urethane designed for flame resistance and fast cure.

**P/N Package Size**  
1166733 50 ml dual cartridge

### LOCTITE® UK 3184™ Polyurethane Adhesive Hardener

A two-part polyurethane system to be used with LOCTITE® UK 3173™ Resin to meet UL 94V-0 Flammability Rating at 3/8 in. thickness.

**P/N Package Size**  
39398 1 gallon pail  
39397\* 5 gallon pail

### LOCTITE® PE 3145™ A Epoxy Adhesive Resin

A potting compound resin that is formulated to offer improved flame retardance when mixed with LOCTITE® Epoxy Hardener (PE 3163™, PE 3164™, PE 3165™ B).

**P/N Package Size**  
40512 1 gallon pail

### LOCTITE® PE 3141™ A Epoxy Adhesive Resin

Resin formulated to offer improved long-term performance at higher temperatures when mixed with a LOCTITE® Epoxy Hardener (PE 3163™, PE 3164™, PE 3165™ B).

**P/N Package Size**  
39947 1 gallon pail

### LOCTITE® EA E-40EXP™ Epoxy Adhesive

A two-component, room-temperature curing epoxy potting compound designed to pass UL testing and maintain more than 85% of its compression strength following exposure to 13 harsh chemicals.

**P/N Package Size**  
1511653 200 ml dual cartridge  
1511896 5 gallon pail - part A  
1511897 5 gallon pail - part B

## LOCTITE® DURAPUMP™ METER MIX SYSTEMS

LOCTITE® DuraPump™ Meter Mix Systems offer superior operating performance and durability for a wide range of two-component adhesive chemistries (including MMA\*\*) up to 10:1 ratios and is available in two different models – programmable and pneumatic. For more product and technical information and other LOCTITE® Meter Mix Systems, please go to [page 173](#).



ADDITIONAL RESOURCES

\* Made-to-order item. \*\* Pneumatic only.

## EPOXIES & POLYURETHANES

LOCTITE® potting and encapsulating compounds are two-part epoxy and polyurethane systems formulated to offer a wide range of performance characteristics matched to specific application requirements. Any epoxy resin can be combined with any epoxy hardener to create a mixed system. The same applies to the polyurethane resins and hardeners.

## LOCTITE® Epoxy Product Chart

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE & SIZE	PACKAGE WEIGHT	KEY FEATURES
LOCTITE® EPOXIES RESINS	PE 3140™ A	39944 39945*	1 gallon pail 5 gallon pail	12 lbs. 65 lb.	General-Purpose
	PE 3141™ A	39947	1 gallon pail	12 lbs.	High Temperature
	PE 3142™	39950	1 gallon pail	16 lbs.	Thermally Conductive
	PE 3145™ A	40512	1 gallon pail	13 lbs.	Flame Retardant
LOCTITE® EPOXIES HARDENERS	PE 3162™ B	39960	1 quart can	1.8 lbs.	Fast Cure
	PE 3163™ B	39964 39966*	1 quart can 5 gallon pail	1.7 lbs. 38 lbs.	Excellent Adhesion
	PE 3164™ B	39970*	5 gallon pail	40 lbs.	General-Purpose
	PE 3165™ B	39395	1 quart can	1.7 lbs.	Low Shrinkage

## LOCTITE® Polyurethane Product Chart

LOCTITE® PRODUCT		ITEM NUMBER	PACKAGE TYPE & SIZE	PACKAGE WEIGHT	KEY FEATURES
LOCTITE® POLYURETHANES RESINS	UK 3173™	39984 39985 39986*	1 quart can 1 gallon pail 5 gallon pail	2.5 lbs. 10 lbs. 50 lbs.	General-Purpose
	UK 3182™	39995 39996* 39997*	1 gallon pail 5 gallon pail 55 gallon drum	12 lbs. 62 lbs. 625 lbs.	Fast Cure
	UK 3183™	39998 39999*	1 gallon pail 5 gallon pail	7.5 lbs. 37 lbs.	General-Purpose
	UK 3184™	39398 39397*	1 gallon pail 5 gallon pail	12 lbs. 60 lbs.	Flame Retardant

## LOCTITE® Epoxy Kit Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	WORK LIFE	SHORE HARDNESS	AGENCY APPROVALS	KEY FEATURES
EA E-60NC™	29324	50 ml dual cartridge	Black	60 min.	D 85	CFIA Listed	Electrically noncorrosive, low viscosity
	29325	200 ml dual cartridge					
	29326	400 ml dual cartridge					
EA E-30CL™	29329	50 ml dual cartridge	Clear	30 min.	D 85	N/A	Medium fixture, chemical resistant
	29330	200 ml dual cartridge					
	29331	400 ml dual cartridge					
EA E-40EXP™	1511653	200 ml dual cartridge	Black	35 min.	D 80	UL 674	Chemical resistant, use in hazardous locations
	1511896	5 gallon pail - part A					
	1511897	5 gallon pail - part B					

ITEMS IN RED = Source's PICK or NEW

## LOCTITE® Polyurethane Kit Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	WORK LIFE	SHORE HARDNESS	AGENCY APPROVALS	KEY FEATURES	
LOCTITE® POLYURETHANE KIT	UK 3364™	1166733	50 ml dual cartridge	Black	45 sec.	D 80	UL 94V-0	Fast cure, 1:2 mix ratio, black

## LOCTITE® Polyurethane System Properties Chart

SYSTEM CHARACTERISTICS		LOCTITE® POLYURETHANE SYSTEMS			
		UK 3173™/ UK 3182™	UK 3173™/ UK 3183™	UK 3173™/ UK 3184™	
TYPICAL UNCURED PROPERTIES	VISCOSITY (cP)	Resin	75	75	75
		Hardener	30,000	800	14,000
		Mixed	5,500	450	2,250
TYPICAL UNCURED PROPERTIES	WORKING TIME	At 73°F (23°C)	<7 minutes @ 300 g	20 to 40 minutes @ 105 g	150 minutes @ 300 g
	GEL TIME	At 73°F (23°C)	14 minutes @ 300 g	40 to 70 minutes @ 105 g	150 minutes @ 300 g
		Normal 73°F (23°C)	90 minutes	24 hours	24 hours
TYPICAL UNCURED PROPERTIES	CURE CYCLE	Alternate 185°F (85°C)	30 minutes	1 to 3 hours	1 to 3 hours
		MIX RATIO	By Weight (Resin : Hardener)	13:87	30:70
TYPICAL UNCURED PROPERTIES	MIX RATIO	By Volume (Resin : Hardener)	1:5.2	1:3	1:4.8
		COLOR	Resin	Dark Brown	Clear Brown
Hardener	Black		Opaque Black	Opaque White	
Mixed	Black		Opaque Black	Opaque White	
TYPICAL UNCURED PROPERTIES	SPECIFIC GRAVITY	Resin	1.23	1.23	1.23
		Hardener	1.60	0.96	1.45
		Mixed	1.55	1.06	1.40
TYPICAL CURED PROPERTIES	SHORE HARDNESS		A 75	A 70	A 80
	GLASS TRANSITION TEMPERATURE/Tg (°C)		-10	-16	-15
	CTE ABOVE Tg (M/MM°C)		128x10e-6	190x10e-6	151x10e-6
TYPICAL CURED PROPERTIES	DIELECTRIC CONSTANT	0.1 kHz	4.68	5.92	4.51
		1.0 kHz	4.02	4.36	4.29
		10.0 kHz	3.76	3.65	3.94
		100.0 kHz	3.63	3.31	3.56
	DISSIPATION FACTOR	0.1 kHz	0.13	0.22	0.02
		1.00 kHz	0.07	0.17	0.04
		10.0 kHz	0.04	0.10	0.06
		100.0 kHz	0.02	0.05	0.07
	INSULATION RESISTANCE (OHMS)		2.5x10e+13	1.1x10e+11	1.1x10e+12
	VOLUME RESISTIVITY (OHMS/CM)		1.5x10e+15	6.83x10e+12	6.61x10e+13
DIELECTRIC STRENGTH (VOLTS/MIL)		370	375	370	
FLAMMABILITY RATING		N/A	N/A	94V-0 @ 3/8 in.	
UL FILE NO. E257711		N/A	N/A	94V-2 @ 1/4 in.	

# Epoxies & Polyurethanes



SYSTEM CHARACTERISTICS		LOCTITE® PE 3140™ A EPOXY SYSTEM				LOCTITE® PE 3141™ A EPOXY SYSTEM				
		PE 3140™ A/ PE 3162™ B	PE 3140™ A/ PE 3163™ B	PE 3140™ A/ PE 3164™ B	PE 3140™ A/ PE 3165™ B	PE 3141™ A/ PE 3162™ B	PE 3141™ A/ PE 3163™ B	PE 3141™ A/ PE 3164™ B	PE 3141™ A/ PE 3165™ B	
TYPICAL UNCURED PROPERTIES	VISCOSITY (cP)	Resin	11,000	11,000	11,000	11,000	80,000	80,000	80,000	80,000
		Hardener	120	450	105	55	120	450	105	55
		Mixed	2,000	1,500	1,500	2,000	5,000	4,000	6,000	13,000
	WORKING TIME	73°F (25°C)	5 to 10 min. @ 100 g	80 to 100 min. @ 200 g	10 to 15 min. @ 400 g	to 1.5 hrs. @ 400 g	5 min. @ 200 g	30 to 45 min. @ 200 g	10 min. @ 400 g	35 to 40 min. @ 200 g
	GEL TIME	73°F (25°C)	10 to 15 min. @ 105 g	2.5 to 3 hrs. @ 200 g	25 to 35 min. @ 400 g	2 to 3 hrs. @ 400 g	10 to 15 min. @ 200 g	60 to 80 min. @ 200 g	20 to 25 min. @ 200 g	65 to 75 min. @ 200 g
	CURE CYCLE	Normal 73°F (25°C)	16 hrs.	24 hrs.	16 hrs.	24 hrs. @ 77°F + 4 hrs. @ 200°F	24 hrs.	24 hrs.	24 hrs.	24 hrs. @ 77°F + 4 hrs. @ 200°F
		Alternate 150°F (60°C)	1 hr.	2 hrs.	2 hrs.	N/A	2 hrs.	2 hrs.	2 hrs.	N/A
	MIX RATIO	By Weight (R:H)	100:18.1	100:29	100:29.5	100:9	100:19.8	100:30	100:31.5	100:9
		By Volume (R:H)	3.6:1	2:1	2:1	6.5:1	3:1	2:1	2:1	6.5:1
	COLOR	Resin	Black	Black	Black	Black	Black	Black	Black	Black
Hardener		Clear	Clear	Clear	Clear	Clear	Amber	Amber	Clear	
Mixed		Black	Black	Black	Black	Black	Black	Black	Black	
SPECIFIC GRAVITY	Resin	1.64	1.64	1.64	1.64	1.61	1.61	1.61	1.61	
	Hardener	0.99	0.96	0.97	0.96	0.99	0.96	0.97	0.96	
	Mixed	1.48	1.41	1.42	0.96	1.46	1.40	1.40	1.40	
TYPICAL CURED PROPERTIES	SHORE HARDNESS	D 80	D 80	D 70	D 85	D 90	D 80	D 85	D 85	
	GLASS TRANSITION TEMPERATURE/Tg (°C)	35	20	27	67	75	38	31	104	
	CTE ABOVE Tg (MM/MM°C)	125x10e-6	133x10e-6	150x10e-6	119x10e-6	135x10e-6	138x10e-6	111x10e-6	115x10e-5	
	CTE BELOW Tg (MM/MM°C)	37.5x10e-6	44.9x10e-6	82.6x10e-6	36.0x10e-6	39.7x10e-6	52.6x10e-6	49.2x10e-6	35x10e-6	
	DIELECTRIC CONSTANT	0.1 kHz	4.25	4.61	4.2	4.87	3.91	3.58	4.11	4.28
		1.0 kHz	4.20	4.37	4.0	4.83	3.88	3.52	3.97	4.18
		10.0 kHz	4.16	4.20	3.8	4.75	3.84	3.46	3.87	4.06
100.0 kHz		4.10	4.05	3.7	4.64	3.79	3.39	3.77	3.92	
TYPICAL ELECTRICAL PROPERTIES	DISSIPATION FACTOR	0.1 kHz	0.010	0.040	0.08	0.003	0.01	0.01	0.02	0.01
		1.0 kHz	0.011	0.027	0.04	0.007	0.01	0.01	0.02	0.02
		10.0 kHz	0.012	0.026	0.03	0.011	0.01	0.01	0.02	0.02
		100.0 kHz	0.013	0.023	0.03	0.014	0.01	0.02	0.02	0.02
	INSULATION RESISTANCE (OHMS)	2.67x10e+13	1.61x10e+12	7.5x10e+111	5.19x10e+13	4.09x10e+13	1.23x10e+14	4.57x10e+13	2.15x10e+13	
VOLUME RESISTIVITY (OHMS/CM)	2.53x10e+15	1.02x10e+14	1.5x10e+14	2.69x10e+15	2.61x10e+15	7.41x10e+15	2.98x10e+15	1.37x10e+15		
DIELECTRIC STRENGTH (VOLTS/MIL)	385	365	410	355	355	385	395	365		
FLAMMABILITY RATING UL FILE NO. E257711	N/A	N/A	UL 94B @ 1/16 in.	N/A	N/A	N/A	N/A	N/A		
INSULATION SYSTEM UL FILE NO. E257711	N/A	N/A	UL 1446	N/A	N/A	N/A	N/A	N/A		

SYSTEM CHARACTERISTICS			LOCTITE® PE 3142™ EPOXY SYSTEM				LOCTITE® PE 3145™ A EPOXY SYSTEM			
			PE 3142™ / PE 3162™ B	PE 3142™ / PE 3163™ B	PE 3142™/ PE 3164™ B	PE 3142™/ PE 3165™ B	PE 3145™ A/ PE 3162™ B	PE 3145™ A/ PE 3163™ B	PE 3145™ A/ PE 3164™ B	PE 3145™ A/ PE 3165™ B
TYPICAL UNCURED PROPERTIES	VISCOSITY (cP)	Resin	120,000 to 200,000	120,000 to 200,000	120,000 to 200,000	120,000 to 200,000	32,760	32,760	32,760	32,760
		Hardener	120	450	105	55	120	450	105	55
		Mixed	6,000	7,000	8,000	18,000	7,150	5,315	5,790	13,355
	WORKING TIME	77°F (25°C)	5 to 10 min. @ 200 g	2 hrs. @ 400 g	25 min. @ 400 g	80 min. @ 400 g	15 to 30 min. @ 200 g	3 to 3.5 hrs. @ 200 g	35 to 45 min. @ 200 g	2.5 to 3 hrs. @ 400 g
	GEL TIME	77°F (25°C)	5 to 30 min. @ 200 g	>3 hrs. @ 400 g	50 min. @ 400 g	2.5 hrs. @ 400 g	35 to 45 min. @ 200 g	6 to 7 hrs @ 200 g	75 to 90 min. @ 200 g	5 hrs. @ 200 g
	CURE CYCLE	Normal 77°F (25°C)	24 hrs.	48 hrs.	24 hrs.	24 hrs. @ 77°F +4 hrs. @ 200°F	24 hrs.	24 hrs.	24 hrs.	24 hrs. @ 77°F + 4 hrs. @ 200°F
		Alternate 150°F (66°C)	2 hrs.	4 hrs.	2 hrs.	4 hrs. @ + 200°F	2 hrs.	4 hrs.	2 hrs.	4 hrs. @ + 200°F
	MIX RATIO	By Weight (R:H)	100:9	100:10.9	100:14.3	100:4.1	100:13	100:15.5	100:20	100:6
		By Volume (R:H)	4.5:1	3.6:1	2.8:1	9.7:1	4.5:1	3.7:1	2.9:1	9.7:1
	COLOR	Resin	Black	Black	Black	Black	Black	Black	Black	Black
Hardener		Clear	Amber	Amber	Clear	Clear	Clear	Clear	Clear	
Mixed		Black	Black	Black	Black	Black	Black	Black	Black	
SPECIFIC GRAVITY	Resin	2.40	2.40	2.40	2.40	1.67	1.67	1.67	1.67	
	Hardener	0.99	0.96	0.97	0.96	0.99	0.96	0.97	0.96	
	Mixed	1.54	1.53	1.50	1.62	1.54	1.49	1.49	1.58	
TYPICAL CURED PROPERTIES	SHORE HARDNESS		D 90	D 90	D 85	D 90	D 84	D 80	D 75	D 88
	GLASS TRANSITION TEMPERATURE/Tg (°C)		42	30	29	84	42	38	32	53
	CTE ABOVE Tg (MM/MM°C)		97.2x10e-6	96.1x10e-6	106x10e-6	87.7x10e-6	128x10e-6	130x10e-6	122x10e-6	111x10e-6
	CTE BELOW Tg (MM/MM°C)		28.2x10e-6	33.5x10e-6	51.9x10e-6	26.9x10e-6	42.6x10e-6	49.0x10e-6	59.4x10e-6	40.6x10e-6
	THERMAL CONDUCTIVITY	Watts/Meter²K	0.953/±0.014	0.873/±0.017	0.801/±0.013	1.126/±0.017	0.8068	0.8119	0.7324	1.0341
	DIELECTRIC CONSTANT	0.1 kHz	4.87	5.28	5.51	5.65	3.81	4.27	4.19	4.43
		1.0 kHz	4.83	5.20	5.35	5.57	3.85	4.36	4.46	4.45
		10.0 kHz	4.78	5.12	5.21	5.46	3.74	4.11	4.22	4.28
		100.0 kHz	4.72	5.02	5.06	5.34	3.63	3.90	3.99	4.11
	DISSIPATION FACTOR	0.1 kHz	0.01	0.01	0.02	0.01	0.028	0.033	0.036	0.045
1.0 kHz		0.01	0.01	0.02	0.01	0.025	0.046	0.042	0.036	
10.0 kHz		0.01	0.01	0.02	0.01	0.021	0.037	0.037	0.027	
100.0 kHz		0.01	0.01	0.02	0.01	0.017	0.031	0.034	0.024	
INSULATION RESISTANCE (OHMS)		5.31x10e+13	3.65x10e+13	2.75x10e+12	4.09x10e+13	N/A	N/A	N/A	N/A	
VOLUME RESISTIVITY (OHMS/CM)		3.47x10e+15	2.55x10e+15	1.65x10e+14	2.61x10e+15	8.4e+14	2.1e+14	2.5e+13	7.3e+14	
DIELECTRIC STRENGTH (VOLTS/MIL)		345	355	345	335	693	748	695	794	
FLAMMABILITY RATING UL FILE NO. E257711		N/A	N/A	N/A	N/A	UL 94V-0 @ 1/8 in.	N/A	N/A	UL 94V-0 @ 1/8 in.	

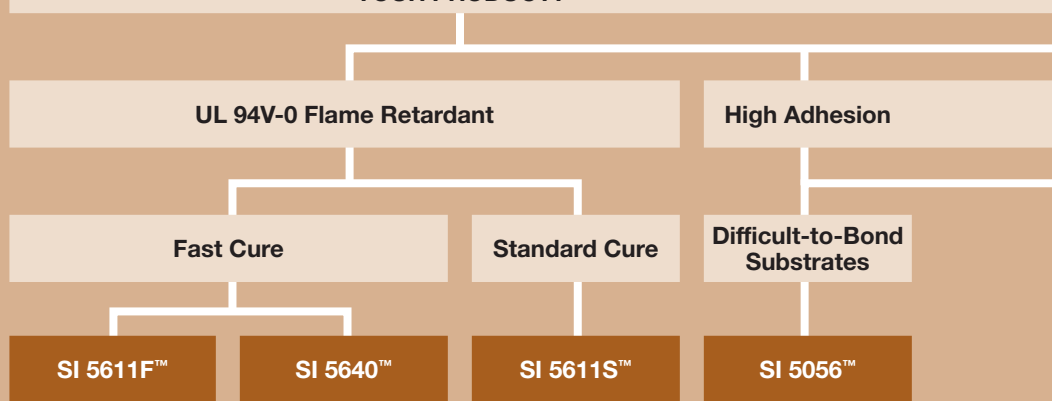
# Silicones

## Your Application

- Single-component, tough, protective
- Seal components against moisture, solvents and environmental conditions
- Cure in as little as 30 seconds to depths of 0.150 in. when exposed to UV light or visible light

## Solution

### WHAT IS THE MOST IMPORTANT ASPECT WHEN CHOOSING YOUR PRODUCT?



Key Feature	SI 5611F™	SI 5640™	SI 5611S™	SI 5056™
Flame Retardant (UL 94V-0 Rating)	Flame Retardant (UL 94V-0 Rating)	Flame Retardant (UL 94V-0 Rating)	Flame Retardant (UL 94V-0 Rating)	ISO 10993 Compliant
Color	Grey	Grey	Grey	Clear/Yellowish Tint
Viscosity, cP (Resin/Hardener)	5,000/5,000	10,000/1,000	5,000/5,000	2,200

## Product Description

### LOCTITE® SI 5611F™ Silicone Potting Compound

*Self-Leveling,  
Noncorrosive,  
Flame Retardant*

Two-part, flame retardant (UL 94V-0) silicone. Products vary in cure speed and open times from fast (F) to standard (S) to match particular end-use applications. Grey in color.

P/N	Package Size
1385991	490 ml dual cartridge
1387908	4.5 gallon pail, part A
1387706	4.5 gallon pail, part B
1386373	575 lb. drum, part A
1432213	440 lb. drum, part B

### LOCTITE® SI 5640™ Silicone Potting Compound

*Self-Leveling,  
Noncorrosive,  
Flame Retardant*

Two-part, self-leveling with a UL 94V-0 rating and an improved adhesion to plastics. Grey in color. **UL Listed.**

P/N	Package Size
1738359	490 ml dual cartridge
1738366	55 gallon drum, part A
1738365	5 gallon pail, part B

### LOCTITE® SI 5611S™ Silicone Potting Compound

*Self-Leveling,  
Noncorrosive, Flame Retardant*

Two-part, flame retardant (UL 94V-0) silicone. Products vary in cure speed and open times from fast (F) to standard (S) to match particular end-use applications. Grey in color.

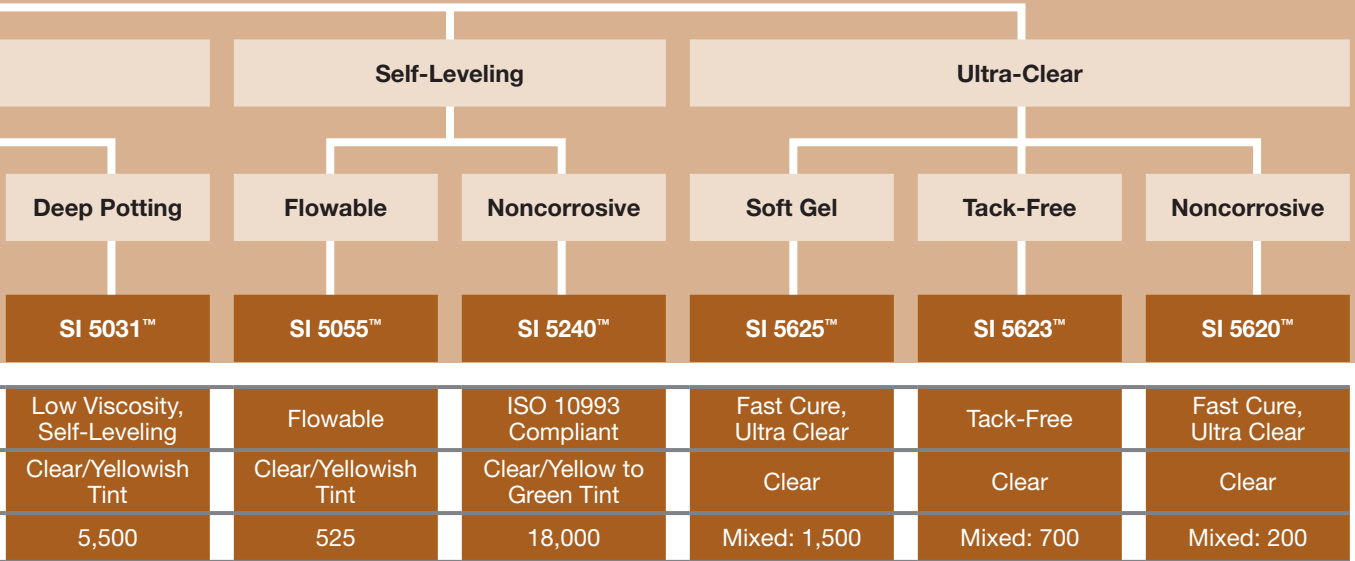
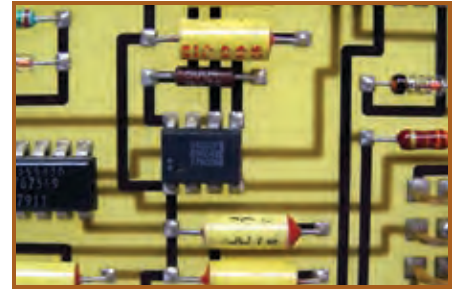
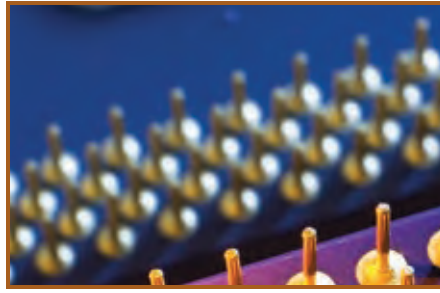
P/N	Package Size
1386378	490 ml dual cartridge
1387908	4.5 gallon pail, part A
1388496	4.5 gallon pail, part B
1386373	575 lb. drum, part A

### LOCTITE® SI 5056™ Light Cure Adhesive *Self-Leveling/High Adhesion*

A UV or visible light curing, noncorrosive silicone with very high bond strength. Ideal for high speed adhesion and sealing applications. High adhesion for difficult-to-bond substrates.

P/N	Package Size
1214249	25 ml syringe
1214250	1 liter bottle
1214248*	15 liter pail

\* Made-to-order item.



**LOCTITE® SI 5031™**  
**Silicone Potting Compound**  
*High Adhesion/Visible Light*  
 A low viscosity, self-leveling, UV or visible light curing silicone for high speed deep potting, coating and sealing applications. Provides high adhesion for difficult-to-bond substrates.

P/N	Package Size
40086	300 ml cartridge
40087	40 lb. pail

**LOCTITE® SI 5055™**  
**Silicone Adhesive Sealant**  
*Self-Leveling/Flowable*  
 A UV or visible light curing, noncorrosive silicone for high speed coating, potting adhesion, or sealing applications. High adhesion for difficult-to-bond substrates.

P/N	Package Size
1212167	25 ml syringe
1214246	1 liter bottle
1214247*	15 liter pail

**LOCTITE® SI 5240™**  
**Medical Device Sealant**  
*Self-Leveling/Noncorrosive*  
 A UV or visible light and moisture curing, noncorrosive silicone ideal for high speed adhesion and sealing applications. High adhesion for difficult-to-bond substrates.

P/N	Package Size
1010341	25 ml syringe
1010320	300 ml cartridge
1010343*	40 lb. pail

**LOCTITE® SI 5625™**  
**Silicone Potting Compound**  
*Ultra-Clear/Tack-Free*  
 Two-part, ultra-clear, soft, noncorrosive silicone gel. Transparent in color. Very soft, re-enterable gel. Room temperature cure or accelerated heat cure.

P/N	Package Size
1257475	400 ml dual cartridge
1257616	40 lb. pail, part A
1257613	40 lb. pail, part B
1257617	400 lb. drum, part A
1257615	400 lb. drum, part B

**LOCTITE® SI 5623™**  
**Silicone Potting Compound**  
*Ultra-Clear/Soft Gel*  
 Two-part, ultra-clear, tack-free, noncorrosive silicone gel. Transparent in color. Tough gel. Room temperature cure or accelerated heat cure.

P/N	Package Size
1259300	400 ml dual cartridge
1257611	40 lb. pail, part A
1257607	40 lb. pail, part B
1257612	400 lb. drum, part A
1257609	400 lb. drum, part B

**LOCTITE® SI 5620™**  
**Silicone Potting Compound**  
*Ultra-Clear/Fast Cure*  
 Two-part, ultra-clear, fast cure, noncorrosive silicone. Transparent in color. Ideal for sealant, or potting applications that require a transparent silicone. Fast room temperature cure.

P/N	Package Size
1257478	400 ml dual cartridge
1257595	40 lb. pail, part A
1257597	40 lb. pail, part B
1257594	400 lb. drum, part A
1257596	400 lb. drum, part B

# Silicones

## LOCTITE® Silicone Potting Compound Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	CURE SCHEDULE (Cure/Alt. Cure)	VISCOSITY (cP)	GEL TIME	SHORE HARDNESS	AGENCY APPROVALS
<b>SI 5031™</b>	40086 40087	300 ml cartridge 40 lb. pail	UV/visible light/moisture 60 seconds @ 40 mW/cm <sup>2</sup>	5,500	Seconds	A 34	N/A
<b>SI 5040™</b>	40405 40404	85 g tube 300 ml cartridge	Moisture 24 hours @ 77°F (25°C)	35,000	<3 hours (skin over)	A 30	MIL-A-46146B
<b>SI 5055™</b>	1212167 1214246 1214247*	25 ml syringe 1 liter bottle 15 liter pail	60 seconds @ 70 mW/cm <sup>2</sup>	525	Seconds	A 55	ISO 10993 Compliant
<b>SI 5056™</b>	1214249 1214250 1214248*	25 ml syringe 1 liter bottle 15 liter pail	60 seconds @ 70 mW/cm <sup>2</sup>	2,200	Seconds	A 43	ISO 10993 Compliant
<b>SI 5091™</b>	17412	300 ml cartridge	UV/moisture 60 seconds @ 40 mW/cm <sup>2</sup>	5,500	Seconds	A 34	UL Classified for U.S.
<b>SI 5240™</b>	1010341 1010320 1010343*	25 ml syringe 300 ml cartridge 40 lb. pail	60 seconds @ 70 mW/cm <sup>2</sup>	18,000	Seconds	A 45	ISO 10993 Compliant
<b>SI 5611F™</b>	1385991 1387908 1387706 1386373 1432213	490 ml dual cartridge 4.5 gallon pail, part A 4.5 gallon pail, part B 575 lb. drum, part A 440 lb. drum, part B	Two-Part 10:1 A:B by volume 11 minutes tack-free	Part A - 5,000 Part B - 5,000	19 minutes	A 55	UL 94V-0
<b>SI 5611S™</b>	1386378 1387908 1388496 1386373 1387212	490 ml dual cartridge 4.5 gallon pail, part A 4.5 gallon pail, part B 575 lb. drum, part A 440 lb. drum, part B	Two-Part 10:1 A:B by volume 38 minutes tack-free	Part A - 5,000 Part B - 5,000	73 minutes	A 55	UL 94V-0
<b>SI 5620™</b>	1257478 1257595 1257597 1257594 1257596	400 ml dual cartridge 40 lb. pail, part A 40 lb. pail, part B 400 lb. drum, part A 400 lb. drum, part B	Two-Part 30 minutes @ 77°F (25°C)	Part A - 220 Part B - 190 Mixed - 200	20 minutes**	A 35	N/A
<b>SI 5623™</b>	1259300 1257611 1257607 1257612 1257609	400 ml dual cartridge 40 lb. pail, part A 40 lb. pail, part B 400 lb. drum, part A 400 lb. drum, part B	Two-Part 1 hour @ 212°F (100°C) 24 hours @ 77°F (25°C)	Part A - 700 Part B - 700 Mixed - 700	120 minutes**	00 40	N/A
<b>SI 5625™</b>	1257475 1257616 1257613 1257617 1257615	400 ml dual cartridge 40 lb. pail, part A 40 lb. pail, part B 400 lb. drum, part A 400 lb. drum, part B	Two-Part 1 hour @ 212°F (100°C) 24 hours @ 77°F (25°C)	Part A - 1,000 Part B - 2,000 Mixed - 1,500	100 minutes**	00 2	N/A
<b>SI 5640™</b>	1738359 1738366 1738365	490 ml dual cartridge 55 gallon drum, part A 5 gallon pail, part B	Two-Part 10:1 A:B by volume 38 minutes tack-free	Part A - 10,000 Part B - 1,000	5 minutes	A 30	UL 94V-0

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.

\*\* Pot life.









# Silicone Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPE & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
CARTRIDGE DISPENSING	PNEUMATIC CARTRIDGE DISPENSING								
		<b>300 ML PNEUMATIC CARTRIDGE DISPENSING RETAINER</b>	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure / Acrylics, Silicones	300 ml cartridges	Low to Medium	Pneumatic	Cartridge Accessories – Page 175
		<b>HD10 300 ML PNEUMATIC CARTRIDGE DISPENSER</b>	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No	
		<b>300 ML CARTRIDGE PUSHER</b>	98022	0 to 50 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure / Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes	
	<b>HIGH PRESSURE 300 ML BENCHTOP CARTRIDGE DISPENSER</b>	1046901	0 to 725 psi	Silicone, Polyurethane, MS Polymer Adhesives	290 ml cartridges 300 ml cartridges 310 ml cartridges	10,000 to 1,000,000	Yes	Use with High Pressure Dispense Valve (sold separately) – see below	

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
VALVES & PUMPS	HIGH VISCOSITY FLUID & PASTE VALVES								
		<b>VA26 DISPENSE VALVE – 50 BAR</b>	1960414	High Viscosity Fluid and Paste Valves	10,000 to 1,000,000 cP	Drop, Bead	Silicones, MS Polymers, Urethanes	Yes	Yes
	<b>HIGH PRESSURE DISPENSE VALVE – 150 BAR</b>	1153502	500,000 to 2,000,000 cP		Yes			No	

ITEMS IN RED = Source's PICK or NEW

Your Source for Motion Control Robot Dispense Systems. See page 169.

**EQUIPMENT** – Henkel is a full-service supplier of LOCTITE® branded equipment and offers a wide variety of equipment services to its customers. **For more LOCTITE® branded equipment, go to page 163.**  
 Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or call 1-800-LOCTITE (562-8483).

**STRAIGHT FROM The Source**

# Hot Melts

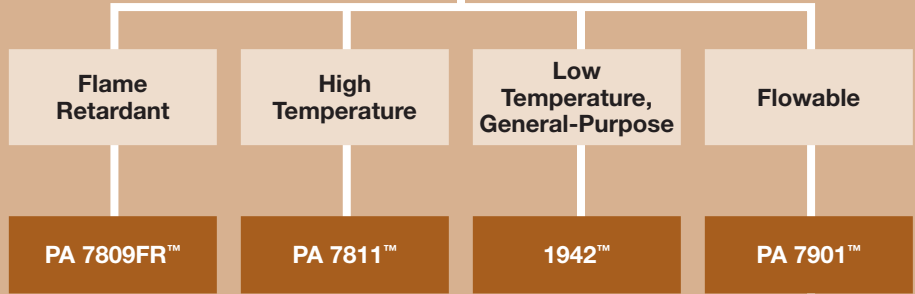


## Your Application

- Well-suited for fast, deep potting applications requiring large gap fills in high speed manufacturing environments
- Used for potting and encapsulating in the electronics industry

## Solution

### WHAT IS THE MOST IMPORTANT ASPECT WHEN CHOOSING YOUR PRODUCT?



	PA 7809FR™	PA 7811™	1942™	PA 7901™
<b>Color</b>	Amber	Amber	Tan	Amber
<b>Viscosity (cP) at Dispense Temperature</b>	7,000	4,250 to 6,400	5,000	750
<b>Open Time (sec.)</b>	35	35	30	35
<b>Temperature Resistance</b>	240°F	266°F	142°F	300°F

## Product Description

### TECHNOMELT® PA 7809FR™ Hot Melt Adhesive *Fire Retardant*

Modified with fire retardant materials. It has a UL 94V-0 flammability rating.

P/N	Package Size
83675	Superstick (10 in.) 32 lb. carton
83676	Polyshot 25 lb. pail

### TECHNOMELT® PA 7811™ Hot Melt Adhesive *High Temperature*

A high performance polyamide with exceptional high temperature resistance and impact resistance at low temperatures.

P/N	Package Size
83340	Polyshot 25 lb. pail
83338	40 lb. carton pellets

### TECHNOMELT® 1942™ Hot Melt Adhesive *General-Purpose*

Medium setting, general-purpose hot melt adhesive. Excellent adhesion to wood and many plastics. Not recommended for high temperature potting applications.

P/N	Package Size
83267	40 lb. carton pellets
83269	Maxistick 35 lb. carton
83274	Superstick (10 in.) 25 lb. carton
83277	Polyshot 35 lb. carton

### TECHNOMELT® PA 7901™ Hot Melt Adhesive *Polyamide*

Low viscosity polyamide used extensively for potting and encapsulating.

P/N	Package Size
83342	40 lb. carton pellets



### TECHNOMELT® Hot Melt Adhesive Properties Chart

TECHNOMELT® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP) AT DISPENSE TEMPERATURE	TENSILE STRENGTH (psi)	OPEN TIME	TEMPERATURE RESISTANCE	% ELONGATION	SHORE HARDNESS	AGENCY APPROVALS
TECHNOMELT® HOT MELT ADHESIVES	1942™	83267 83269 83274 83277	Tan	5,000	250	30 seconds	142°F	500	N/A	FDA CFR175.105
	PA 7809FR™	83675 83676	Amber	7,000	363	35 seconds	240°F	373	A 85	UL Classified for U.S.
	PA 7811™	83340 83338	Amber	4,250 6,400	400	35 seconds	266°F	1,200	N/A	N/A
	PA 7901™	83342	Amber	750	260	35 seconds	300°F	80	A 84	N/A

You can find more LOCTITE® and TECHNOMELT® Hot Melt Adhesives in the bonding section on [pages 13-16](#).

Please see [pages 107-108](#) for LOCTITE® Hot Melt applicators.








**ADDITIONAL  
RESOURCES**

# Hot Melt Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).
























LOCTITE® PRODUCT		ITEM NUMBER	STICK DIAMETER	DISPENSE MELT RATE	DISPENSE POWER	DISPENSE TEMPERATURE	HOT MELT CHEMISTRY	HOT MELT NOZZLES & ACCESSORIES
<b>1/2 INCH SUPERSTICK DISPENSERS</b>								
	<b>HYSOL® 050A</b>	916282	1/2 in. Superstick Sticks	4 lbs./hr.	Manual	383°F (195°C)	EVA/Polyolefin	Hot Melt Nozzles and Accessories – Page 108
	<b>HYSOL® 050A-HT</b>	1597635	1/2 in. Superstick Sticks	4.4 lbs./hr.	Manual	419°F (215°C)	Polyamide	
<b>3/4 INCH MAXISTICK DISPENSERS</b>								
	<b>HYSOL® 075</b>	98033	3/4 in. Maxistick Sticks	9 lbs./hr.	Manual	360°F (182°C)	EVA	Hot Melt Nozzles and Accessories – Page 108
	<b>HYSOL® 075-LT</b>	98034	3/4 in. Maxistick Sticks	5 lbs./hr.	Manual	249°F (121°C)	CoolMelt™	
<b>1 3/4 INCH SPRAYPAC™ &amp; POLYSHOT DISPENSERS</b>								
	<b>HYSOL® 175-AIR</b>	98036	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	383°F (195°C)	EVA/Polyolefin	Hot Melt Nozzles and Accessories – Page 108
	<b>HYSOL® 175-AIR-HT</b>	98040	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	419°F (215°C)	Polyamide	
	<b>HYSOL® 175-SPRAY</b>	98037	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	383°F (195°C)	EVA/Polyolefin	
	<b>HYSOL® 175-SPRAY-HT</b>	98041	1 3/4 in. Polyshot Sticks	8 lbs./hr.	Electric	419°F (215°C)	Polyamide	
	<b>EQ HM22</b>	2040430	1 3/4 in. Polyshot Sticks	6.6 lbs./hr.	Manual	383°F (195°C), 419°F (215°C) and 320°F (160°C)	EVA/Polyolefin and Polyamide	
<b>URETHANE DISPENSER</b>								
	<b>EQ HM18 REACTIVE URETHANE CARTRIDGE DISPENSER</b>	2011543	N/A	3 lbs./hr.	Air	249°F (121°C)	Reactive Urethane	Hot Melt Nozzles and Accessories – Page 108

\* The LOCTITE® Hysol® 175 Dispenser (manual electric) is supplied with both temperature modules.

For custom hot melt dispense nozzles, contact the Special Equipment Group of Henkel at 1-800-LOCTITE (562-8483).

**STRAIGHT FROM** *The Source*

LOCTITE® PRODUCT	ITEM NUMBER	DESCRIPTION	USED WITH
	2049853	Nozzle with Adapter/Check Valve	2040430
	1611450	Replacement Nozzle/Check Valve	1597635
	419115 (SINGLE PACK)	Adapter/Check Valves for Nozzles	98035, 98036, 98040
	916050 (5 PACK)		916282
	2049855 (SINGLE PACK)		2040430
	ANZ023N01	Standard Nozzle Adapter with Check Valve and Jam Nut	98033, 98034
	985225 (5 PACK)	1-Hole Nozzle 0.08" diameter cone tip (5 pack)	98033, 98034, 98035, 98036, 98040 2040430
	985110	2-Hole Nozzle 0.06" diameter x 0.39" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985111	3-Hole Nozzle 0.06" diameter x 0.20" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985112	Diagonal Extension Nozzle Tip = 0.14" diameter x 1.23" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985113	Needle Extension Nozzle Tip = 0.05" diameter x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985114	Spreader Extension Nozzle Tip = (0.09" x 0.25") x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985115	L-Nozzle 0.06" diameter x 0.85" offset	98033, 98034, 98035, 98036, 98040, 98544, 98545 2040430
	985122	Standard Medium Spray Nozzle 1.25" to 5" diameter pattern	98037, 98041
	985211	Narrow Spray Nozzle 0.05" to 1.25" diameter pattern	98037, 98041
	985216	Ultra-Wide Spray Nozzle 1.5" to 6.0" diameter pattern	98037, 98041
	984261	Standard Adapter for 300 ml Cartridges	98011
			2011543
	984262	Standard 1-Hole Nozzle 0.098" diameter cone tip, with integral check valve (includes protective cap)	98011
			2011543
	984263	Adapter/Check Valve for Specialty Nozzles	98011
			2011543
	984264	Needle Jet Nozzle Tip = 0.051" diameter x 1.26" long (requires 984263 adapter)	98011
			2011543
	984268	3-Hole Nozzle 0.06" diameter x 0.20" spacing (requires 984263 adapter)	98011
			2011543
	984272	Injection Needle Nozzle with Integral Check Valve Tip = 0.059" diameter x 0.197" long	98011
			2011543
	985397	Air Line Filter, Regulator, 5 Micron Filter Gauge 0 to 150 psi	All Pneumatic Applicators

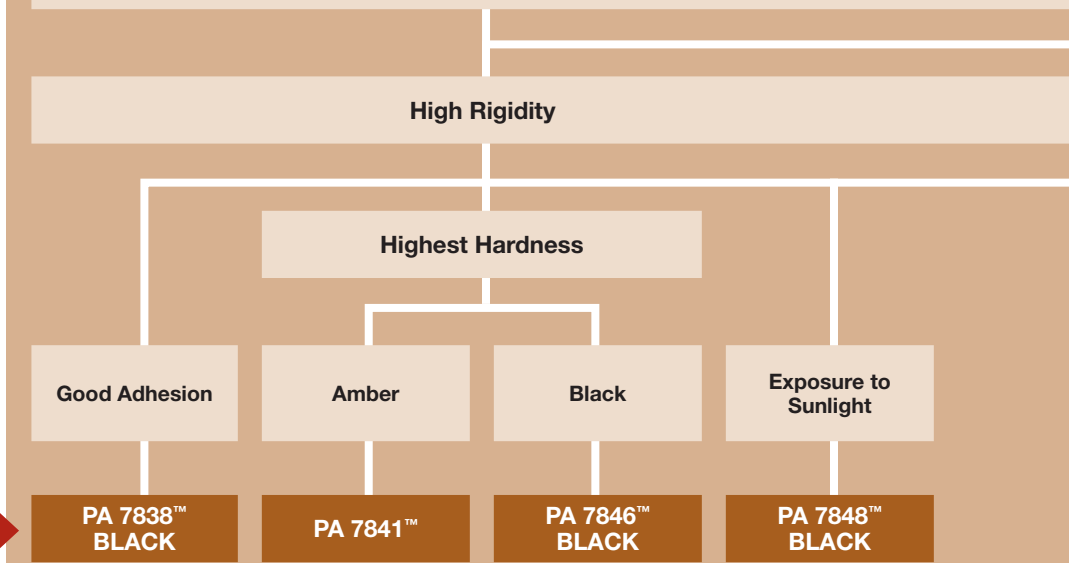
HOT MELT NOZZLES & ACCESSORIES

# Low Pressure Molding

## Your Application

- Low-pressure, high-speed molding with adhesives for fragile and delicate components
- Short cycle time and single-step process
- Encapsulation of components provides complete sealing and subsequent environmental resistance

## WHAT TYPE OF MOLDING MATERIAL DO YOU NEED?



## Solution

	PA 7838™ BLACK	PA 7841™	PA 7846™ BLACK	PA 7848™ BLACK
<b>Color</b>	Black	Amber	Black	Black
<b>Hardness (Shore A)</b>	90A	92A	92A	93A
<b>Maximum Working Temperature (°C)</b>	130	130	130	130
<b>Viscosity at 210°C (cP)</b>	3,500	7,000	7,000	7,300

## Product Description

### TECHNOMELT® PA 7838™ BLACK

Moldable black polyamide for higher temperature applications, with service temperatures up to 130°C (266°F).

**P/N**     **Package Size**  
1762953   44 lb. bag

### TECHNOMELT® PA 7841™

Moldable amber polyamide that can be used where high strength and hardness are needed, such as with computer connectors.

**P/N**     **Package Size**  
1762906   44 lb. bag

### TECHNOMELT® PA 7846™ BLACK

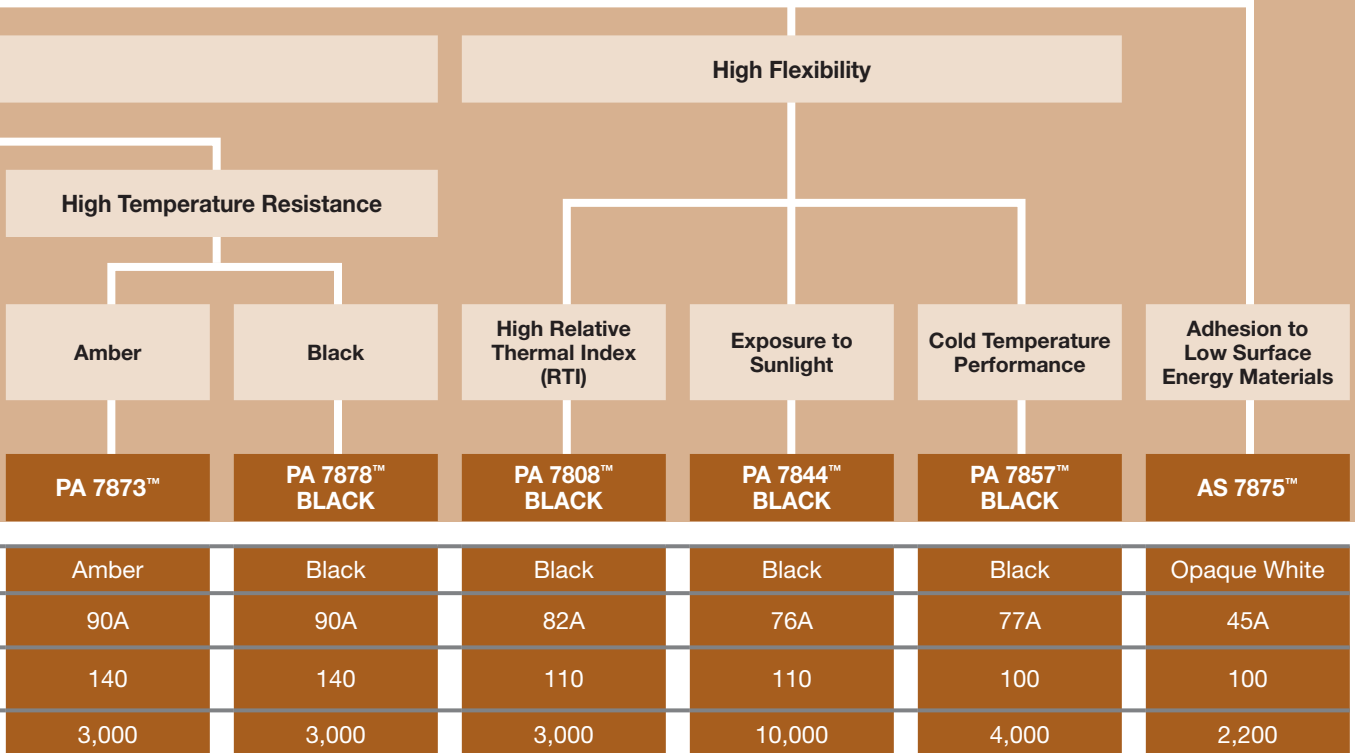
Moldable black polyamide that can be used where high strength and hardness are needed, such as with computer connectors.

**P/N**     **Package Size**  
1764113   44 lb. bag

### TECHNOMELT® PA 7848™ BLACK

Moldable black polyamide with improved UV stability that is suitable for outdoor applications.

**P/N**     **Package Size**  
1764108   44 lb. bag



**TECHNOMELT® PA 7873™**  
 Moldable amber polyamide with good adhesion for higher temperature applications up to 140°C (284°F).  
**P/N** 1763724 **Package Size** 44 lb. bag

**TECHNOMELT® PA 7878™ BLACK**  
 Moldable black polyamide with good adhesion for higher temperature applications up to 140°C (284°F).  
**P/N** 1762904 **Package Size** 44 lb. bag

**TECHNOMELT® PA 7808™ BLACK**  
 Moldable black polyamide with excellent adhesion to tough substrates and superior flexibility. This product is ideal for strain relief on cables and wires and for the encapsulation of heat-producing components in electrical devices. Has a UL RTI of 95°C (203°F).  
**P/N** 1762910 **Package Size** 44 lb. bag

**TECHNOMELT® PA 7844™ BLACK**  
 Moldable black polyamide with improved UV stability that is suitable for outdoor applications. Enhanced adhesion to low surface energy plastics compared to other polyamides.  
**P/N** 1925259 **Package Size** 40 lb. bag

**TECHNOMELT® PA 7857™ BLACK**  
 Moldable black polyamide that can be used where excellent adhesion and cold temperature flexibility are important.  
**P/N** 1762909 **Package Size** 44 lb. bag

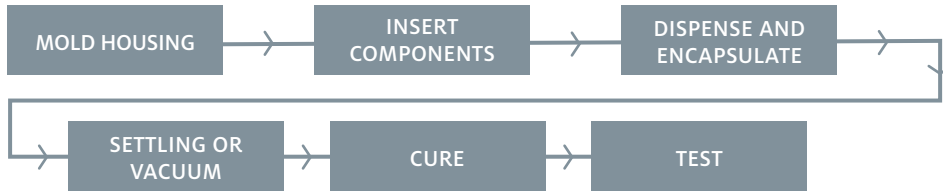
**TECHNOMELT® AS 7875™**  
 Moldable polyolefin hot melt for applications demanding moisture and solvent resistance. It exhibits excellent adhesion to low surface energy plastics.  
**P/N** 1762907 **Package Size** 55 lb. bag

# Low Pressure Molding



## Process

### Traditional Potting Process Flow



### Low Pressure Process Flow



## Key Benefits

### Design

- Functional design allows for alternative solutions (simplified process vs. traditional technologies)
- Improved look and image

### Process

- Reduces total cost of ownership
  - Low capital equipment costs and reduced footprint
  - Increased throughput
- Low-viscosity materials allow for low injection pressures
- Less handling and shorter process time
- No cure process required

### Products

- Adhesion to multiple surfaces
- Complete watertight encapsulation
- Safe, 1-component, UL 94V-0 approved
- High temperature resistance
- Compliant materials suitable for sensitive electrical and telecommunication components

### Sustainability

- Zero waste
- All excess material and scrap are recyclable
- Natural ingredients

Through the combination of Product, Process and Design, Low Pressure Molding with TECHNOMELT® delivers customers an advanced and environmentally sustainable solution to component protection.



## TECHNOMELT® Low Pressure Molding Properties Chart

TECHNOMELT® PRODUCT	TYPE	ITEM #	PKG TYPE & SIZE	COLOR	HARDNESS (SHORE A)	TENSILE STRENGTH (PSI)	% ELONGATION	WORKING TEMPERATURE RANGE	AGENCY LISTING
PA 7808™	Polyamide	1762932	44 lb. bag	Amber	82A	520	600	-40°C to 110°C	UL 94V-0, 95°C RTI
PA 7808™ BLACK	Polyamide	1762910	44 lb. bag	Black	82A	520	450	-40°C to 110°C	UL 94V-0, 95°C RTI
PA 7833™	Polyamide	1762931	44 lb. bag	Amber	90A	750	300	-40°C to 130°C	UL 94V-0
PA 7838™ BLACK	Polyamide	1762953	44 lb. bag	Black	90A	750	300	-40°C to 130°C	UL 94V-0
PA 7841™	Polyamide	1762906	44 lb. bag	Amber	92A	1,310	650	-10°C to 130°C	—
PA 7846™ BLACK	Polyamide	1764113	44 lb. bag	Black	92A	1,310	650	-40°C to 130°C	UL 94V-0
PA 7848™ BLACK	Polyamide	1764108	44 lb. bag	Black	93A	1,310	550	-40°C to 130°C	UL 94V-2, f2 rating for outdoor weatherability
PA 7852™	Polyamide	1762908	44 lb. bag	Amber	77A	460	400	-40°C to 100°C	UL 94V-0
PA 7857™ BLACK	Polyamide	1762909	44 lb. bag	Black	77A	390	350	-40°C to 100°C	UL 94V-0
PA 7873™	Polyamide	1763724	44 lb. bag	Amber	90A	800	400	-40°C to 140°C	UL 94V-0
PA 7878™ BLACK	Polyamide	1762904	44 lb. bag	Black	90A	800	400	-40°C to 140°C	UL 94V-0
PA 7844™ BLACK	Polyamide	1925259	40 lb. bag	Black	76A	1,000	700	-20°C to 110°C	—
PA 6782™	Polyamide	2071767	44 lb. bag	Black	82A	800	800	-40°C to 100°C	—
AS 4226™ NA	Acrylic	2040377	44 lb. bag	Clear	90A	1,450	250	-40°C to 85°C	—
AS 7875™	Polyolefin	1762907	55 lb. bag	Opaque White	45A	120	400	-30°C to 100°C	—

TECHNOMELT® LOW PRESSURE MOLDINGS



# Repairing, Rebuilding & Restoring



113	REPAIRING, REBUILDING & RESTORING
115	Belt Repairs & Urethanes
117	Maintenance & Repair Epoxies

## WHY USE LOCTITE® REPAIRING, REBUILDING AND RESTORING PRODUCTS?

The LOCTITE® Repairing, Rebuilding and Restoring products are designed to optimize performance on various substrates. Substrate is the most important factor when choosing a repair, rebuild or restoring product. The correct product for each substrate will make a significant impact on the integrity of the repair. We offer solutions for permanent as well as temporary fixes, providing proven savings for processes and applications.

## TRADITIONAL METHODS VS. LOCTITE® MODERN SOLUTIONS

Traditional methods of repair, such as part replacement and custom manufacturing, are high cost solutions compared with using LOCTITE® Repairing, Rebuilding and Restoring products. You can find a quick remedy and return parts to service with little interruption and downtime to your process.

## KEY BENEFITS OF LOCTITE® REPAIRING, REBUILDING AND RESTORING PRODUCTS:

- Cost savings
- Minimal downtime
- Improved safety
- Epoxies can be drilled and tapped after cure
- Available in varying viscosities and kneadable form
- Available in colors to match varying metals

## WHAT IS THE PROPER SURFACE PREPARATION FOR REPAIR EPOXIES?

A properly prepared surface is one that has been cleaned, dried and abraded. Substrates should be free from contamination, including oils, grease, dust, etc. It is also important that a surface is dry\* before working with a repair epoxy because moisture on the surface can interfere with the curing process. The final step is to abrade the surface to provide an increased surface area for bonding. When working with metals, the surface should be abraded to a near-white metal finish, which also helps to ensure that all surface corrosion is removed.

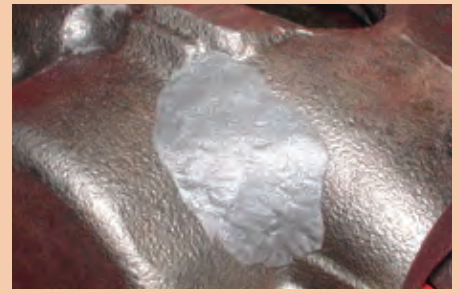
## APPLICATIONS:

- Pump
- Gearbox
- Concrete Repair
- Conveyor Systems
- Shaft Repair

## INDUSTRIES:

- Mining
- Wastewater
- Power Generation
- Food Processing
- Pulp and Paper
- Beverage

\* LOCTITE® Wet Surface Repair Putty and LOCTITE® Underwater Repair Epoxy have been specially formulated to cure in wet or underwater applications.



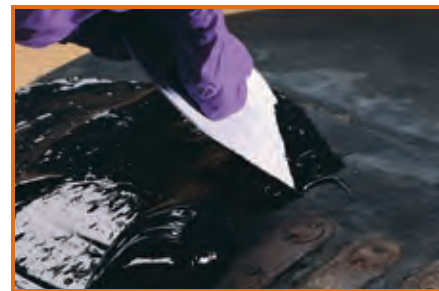
# Repairing, Rebuilding & Restoring



Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

# Belt Repairs & Urethanes



## Your Application

### Belt Repairs:

- Provide durable, tough and flexible repairs of conveyor belts and other damaged rubber equipment quickly and easily

### Urethanes:

- Can be troweled, cast or brush-applied to rebuild or protect critical operating equipment
- Provide protection from impact, abrasion and corrosion
- Nonshrinking and unaffected by oil, grease and water
- Maximum adhesion and product reliability ensured by use of recommended accessories

## Solution

### CONVEYOR BELT REPAIR

Is this a temporary or a long-term repair?

Long-Term

Do you require a fast return to service or a long working time?

Fast Return to Service

Longer Working Time

PC 7350™

PC 7393™

MR 5023™

	PC 7350™	PC 7393™	MR 5023™
<b>Color</b>	Black	Black	Black
<b>Working Time</b>	10 min.	1 min.	10 min.
<b>Tensile Strength</b>	1,600 psi	1,300 psi	1,500 psi
<b>Functional Cure</b>	2 hrs.	2 hrs.	8 hrs.

## Product Description

### LOCTITE® Fixmaster® Universal Dispenser

Handheld, manually operated dispenser designed specifically for use with LOCTITE® PC 7393™ Rapid Rubber Repair Kit.

#### Description:

- Two-part adhesives
- 400 ml cartridges
- Medium- to high-viscosity range

Item #	Description
1372751	LOCTITE® Fixmaster® Universal Dispenser
243335	LOCTITE® EQ 7393™ Mixer



ADDITIONAL RESOURCES

### LOCTITE® PC 7350™ Conveyor Belt Repair

LOCTITE® PC 7350™ is an adhesive, sealant and repair compound that offers an exceptional balance of self-leveling and fast cure. It is an excellent choice for on-site repairs, especially for conveyor belts and other rubber parts.

P/N	Package Size
2073202	400 ml cartridge
2084201	1 kg kit

### LOCTITE® PC 7393™ Rapid Rubber Repair Kit

Our premium quality belt repair product is designed to repair conveyor belts and other damaged rubber equipment quickly and easily. Repairs will have the same durability and flexibility as the belt. The 400 ml cartridge requires the use of a LOCTITE® Fixmaster® Universal Dispenser (part number 1372751).

P/N	Package Size
96677	400 ml kit
96675	400 ml cartridge
96676	150 ml coaxial cartridge

### LOCTITE® MR 5023™ Flex Conveyor Belt Repair

Makes long-lasting belt repairs. Recommended for applications where speed of application is not critical. Cures in 8-12 hours. Kit includes resin, hardener, cleaner, etching agent, brushes and plastic trowels.

P/N	Package Size
98693	1 lb. kit



## LOCTITE® Fixmaster® Belt Repair & Urethane Applications Chart

LOCTITE® PRODUCT	CASTING MOLDS, FIXTURES, PARTS	CONVEYOR BELT REPAIR (LONG-TERM)	CONVEYOR BELT REPAIR (TEMPORARY)	COATING IMPELLERS, FEEDER BOWLS	CHUTES, HOPPERS, DEFLECTION PLATES	REBUILDING RUBBER PARTS	LINING PUMPS	FORMING EXPANSION JOINTS
PC 7393™ RAPID RUBBER REPAIR KIT		▲					△	△
MR 5023™ FLEX CONVEYOR BELT REPAIR		△						
MR FLEX 80™ URETHANE REPAIR PUTTY	△				▲	▲	▲	
MR FLEX 80™ CASTABLE URETHANE LIQUID	▲			△				▲

△ Good Choice ▲ Preferred Choice

## LOCTITE® Belt Repair & Urethane Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	COVERAGE (IN. <sup>2</sup> AT 1/4 IN. THICKNESS)	MAXIMUM OPERATING TEMPERATURE (°F)	ADHESIVE TENSILE STRENGTH (psi)	% ELONGATION	SHORE HARDNESS	WORKING TIME (MINUTES)	FUNCTIONAL CURE (HOURS)	MIX RATIO BY VOLUME (RESIN: HARDENER)	MIX RATIO BY WEIGHT (RESIN: HARDENER)	AGENCY APPROVALS	
BELT REPAIR	PC 7350™ CONVEYOR BELT REPAIR	2073202 2084201	400 ml cartridge 1 kg kit	Black	97.6 in. <sup>2</sup> 225.6 in. <sup>2</sup>	180	1,600	250	95	10	2	1:1	93:100	N/A
	PC 7393™ RAPID RUBBER REPAIR KIT	96677 96675 96676	400 ml kit 400 ml cartridge 150 ml coaxial cartridge	Black	188 188 33	180	1,300	360	A 82	1	2	1:1	N/A	N/A
	MR 5023™ FLEX CONVEYOR BELT REPAIR	98693	1 lb. kit	Black	94	180	1,500	350	A 87	10	8	100:40	72:28	N/A
GENERAL REPAIR	MR FLEX 80™ URETHANE REPAIR PUTTY	97423 97422	1 lb. kit 6 lb. kit	Black	94 564	180	1,500	350	A 87	10	8	100:40	72:28	ABS
	MR FLEX 80™ CASTABLE URETHANE LIQUID	97413 97412	1 lb. kit 6 lb. kit	Black	27 in. <sup>3</sup> 162 in. <sup>3</sup>	180	1,800	350	A 87	20	8	100:13.3	77:23	N/A
	MR 5898™	1878840 1878379	2 gallon pail 1 gallon pail	White	N/A	250	N/A	N/A	N/A	1	24 to 48	1:1	1:0.924	N/A

Properties based on mixing a 1 lb. unit at 77°F, seven days' cure.

## LOCTITE® Belt Repair Accessories Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE DESCRIPTION	COVERAGE	COLOR		
BELT REPAIR ACCESSORIES	ETCHING AGENT	Enhances bonds to rubber	99626	3 fl. oz. bottle	190 in. <sup>2</sup> or approximately 1 can of each product for 2 lbs. of urethane	Clear
	SF 8220™ FLEX CLEANER	Cleans and primes surfaces	39636	4 fl. oz. can	N/A	Clear
	UNIVERSAL DISPENSER	Dispenser	1372751	Required for use with 400 ml cartridge of LOCTITE® PC 7393™. (Item Number 1372751 is not included in the 96677 kit and must be ordered separately.)		
	PC 7393™ MIXER	Static mixers	243335 874905	Packaged 6/bag – for mixing and dispensing LOCTITE® PC 7393™ in a 400 ml cartridge. Packaged 10/pack – for mixing and dispensing LOCTITE® PC 7393™ in a 150 ml coaxial cartridge.		

Need additional mix nozzles for LOCTITE® Universal Dispenser?

- Order Item Number 39633 (6 pk.) Fits 400 ml cartridge.
- Order Item Number 98667 (10 pk.) Fits 150 ml cartridge.

DISPENSE NOZZLES

# Maintenance & Repair Epoxies



## Your Application

- High compressive strength
- Choice of mild steel aluminum or nonmetallic fillers
- Can be machined, drilled or tapped after cure
- Excellent resistance to aggressive chemicals

## REPAIR OR REBUILD DAMAGED PARTS

### What material are you filling?

#### Mild Steel

#### Pourable

#### Putty

#### Kneadable Stick

#### High Performance Chemical Resistance

## Solution

EA 3472™

EA 3471™

EA 3473™

EA 3463™

EA 3478™

	EA 3472™	EA 3471™	EA 3473™	EA 3463™	EA 3478™
<b>Color</b>	Grey	Grey	Grey	Metallic Black	Dark Grey
<b>Maximum Temperature</b>	302°F (150°C)	356°F (180°C)	302°F (150°C)	350°F (175°C)	302°F (150°C)
<b>Working Time*</b>	25 min.	30 min.	3 min.	3 min.	20 min.
<b>Cure Time*</b>	6 hrs.	6 hrs.	10 min.	10 min.	6 hrs.
<b>Compressive Strength</b>	9,700 psi	11,100 psi	7,400 psi	7,200 psi	9,900 psi

## Product Description

### LOCTITE® EA 3472™ Steel-Filled Castable Epoxy

High steel content. Pourable liquid filler used for making fixtures and molding.

**ABS Approved.**

P/N	Package Size
97483	1 lb. kit
97484	4 lb. kit

### LOCTITE® EA 3471™ Steel Putty

High steel content putty. Recommended for repairing and rebuilding worn steel components, such as bearing and fan housings.

**ABS Approved.**

P/N	Package Size
99913	1 lb. kit
99914	4 lb. kit
99912	25 lb. kit

### LOCTITE® EA 3473™ Fast Set Steel Putty

A fast curing version of steel putty. Recommended for repairing pipes and other emergency repairs.

**ABS Approved.**

P/N	Package Size
39917	1 lb. kit

### LOCTITE® EA 3463™ 10-Minute Repair Epoxy

Kneadable, two-part paste. Working time is 3 minutes – sets in 10 minutes. Adheres to damp surfaces. Can be drilled, filed and painted. Ideal for emergency sealing of leaking tanks and pipes. Smooths welds, repairs small cracks in castings and fills oversized bolt holes.

**NSF/ANSI 61 Certified.**

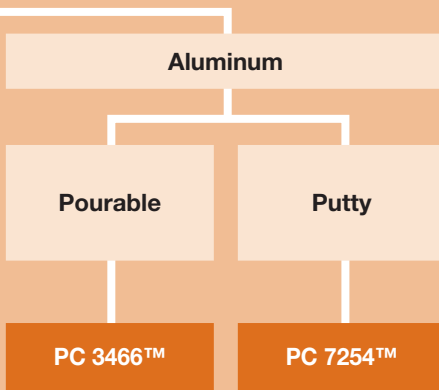
P/N	Package Size
98853	4 oz. stick

### LOCTITE® EA 3478™ Superior Metal

Formulated with fine alloy particles for high compressive strength and chemical resistance. Recommended for use on all metals. Outstanding compressive strength, chemical resistance, non-rusting.

P/N	Package Size
97473	1 lb. kit
40900	4 kg kit

\* At 77°F (25°C).



Light Grey	Light Grey
250°F (120°C)	356°F (180°C)
20 min.	20 min.
6 hrs.	6 hrs.
11,500 psi	9,000 psi

**LOCTITE® PC 3466™**  
Castable Aluminum  
Liquid

Fluid, self-leveling aluminum liquid. Can be poured into molds and cavities. Recommended for casting aluminum replacement parts and for making molds.

**ABS Approved.**

**P/N** \_\_\_\_\_ **Package Size**  
97453 1 lb. Kit

**LOCTITE® PC 7254™**  
Aluminum Putty

General-purpose, aluminum putty for repair of all aluminum alloy components.

**ABS Approved.**

**P/N** \_\_\_\_\_ **Package Size**  
97463 1 lb. Kit

### Your Source for **SUPERIOR METAL** LOCTITE® EA 3478™ Superior Metal 6-Step Process



**STEP 1:**  
Clean completely.



**STEP 2:**  
Gather product.



**STEP 3:**  
Prepare product.



**STEP 4:**  
Mix completely.



**STEP 5:**  
Apply.



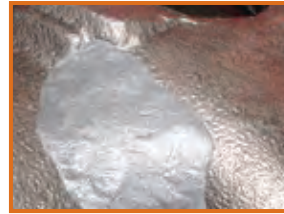
**STEP 6:**  
Set.

#### VISCOSITY AND WORKING TIME

- The working time of an epoxy is the time required for the viscosity to double. Once the viscosity has doubled, epoxies are generally very hard to work with, so jobs should be completed before this time.
- Increasing the temperature of the product or substrate can increase the cure speed of an epoxy and initially reduce the viscosity.

**HELPFUL HINTS**

# Maintenance & Repair Epoxies



## LOCTITE® Maintenance & Repair Epoxy Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	COVERAGE	MAXIMUM TEMPERATURE† (°F)	COMPRESSIVE STRENGTH‡ (psi)	TENSILE STRENGTH‡ (psi)	SHORE HARDNESS	WORKING TIME	FUNCTIONAL CURE	MIX RATIO BY VOLUME	MIX RATIO BY WEIGHT	AGENCY APPROVALS
EPOXY STICKS	<b>EA 3463™ 10-MINUTE REPAIR EPOXY*</b>	98853	4 oz. stick	Metallic Black	16 in. <sup>2**</sup>	350	7,200	2,500	D 80	3 minutes	10 minutes	N/A	N/A	NSF 61
	PC 9428™ CONCRETE REPAIR EPOXY	39366	4 oz. stick	Grey	16 in. <sup>2**</sup>	250	12,000	2,500	D 80	4 to 7 minutes	10 minutes	N/A	N/A	N/A
	EA 9480™ UNDERWATER REPAIR EPOXY	82093	4 oz. stick	White	16 in. <sup>2**</sup>	300	12,000	900	D 70	15 minutes	30 minutes	N/A	N/A	CFIA Listed
POURABLE	EA 3472™ STEEL-FILLED CASTABLE EPOXY*	97483 97484	1 lb. kit 4 lb. kit	Grey	13 in. <sup>3</sup> 52 in. <sup>3</sup>	302	9,700	6,000	D 86	25 minutes	6 hours	4:1	9.5:1	ABS, CFIA Listed, NEHC, NAVSEA
	PC 3466™ CASTABLE ALUMINUM LIQUID*	97453	1 lb. kit	Aluminum	17 in. <sup>3</sup>	250	11,500	6,000	D 85	20 minutes	6 hours	5:1	9:1	ABS, CFIA Listed, NEHC, NAVSEA
TROWELABLE	<b>EA 3478™ SUPERIOR METAL*</b>	97473 40900	1 lb. kit 4 kg kit	Dark Grey	0.25 ft. <sup>2**</sup> 2.2 ft. <sup>2**</sup>	302	9,900	5,500	D 90	20 minutes	6 hours	4:1	7.25:1	CFIA Listed
	EA 3471™ STEEL PUTTY*	99913 99914 99912	1 lb. kit 4 lb. kit 25 lb. kit	Grey	0.3 ft. <sup>2**</sup> 1.2 ft. <sup>2**</sup> 7.5 ft. <sup>2**</sup>	225	11,100	4,900	D 85	30 minutes	6 hours	2.5:1	6.25:1	ABS, CFIA Listed, NEHC, NAVSEA
	PC 7254™ ALUMINUM PUTTY*	97463	1 lb. kit	Aluminum	0.5 ft. <sup>2**</sup>	356	9,000	4,000	D 87	20 minutes	6 hours	4:1	6.3:1	ABS, CFIA Listed, NEHC, NAVSEA
	EA 3476™ STAINLESS STEEL PUTTY*	97443	1 lb. kit	Grey	0.25 ft. <sup>2**</sup>	225	12,000	4,600	D 85	20 minutes	6 hours	4:1	9:1	ABS, CFIA Listed, NEHC, NAVSEA
	EA 3473™ FAST SET STEEL PUTTY*	39917	1 lb. kit	Grey	0.4 ft. <sup>2**</sup>	200	10,800	4,600	D 80	3 minutes	10 minutes	1:1	1.8:1	ABS, CFIA Listed, NEHC, NAVSEA

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR (CURED)	MAXIMUM TEMPERATURE† (°F)	TENSILE STRENGTH‡ (psi)	WORK LIFE	FIXTURE TIME‡	FULL CURE (HOURS)	AGENCY APPROVALS
HIGH PERFORMANCE	PC 3965™ FAST SET STEEL EPOXY	96604	50 ml cartridge	Grey	200	2,600	3 minutes	6 to 8 minutes	7	CFIA Listed
	PC 7222™ NORDBAK® WEAR RESISTANT PUTTY	98742 98743	1 lb. kit 3 lb. kit	Grey	225	1,450	30 minutes	1 hour	6	ABS, CFIA Listed, NEHC, NAVSEA
SPECIALTY PRODUCTS	MR 2000™ EXTREME TEMPERATURE REPAIR PUTTY	95724	8 oz. can	Grey	2000	675	30 minutes	1 hour	7	N/A
	EA 445™ FAST CURE EPOXY	21425 21426	10 – 0.12 fl. oz. cups 10 – 1 oz. cups	Grey	180	2,000	5 minutes	10 minutes	12	N/A
	EA 9017™ FAST CURE EPOXY	1324007	1 oz. oval syringe	Translucent	300	2,300	1 minute	5 minutes	1	ABS, CFIA Listed
	EA 9035™ 4-MINUTE EPOXY	97434	50 ml cartridge	Translucent	160	2,000	3-4 minutes	10 minutes	1	N/A
APPLICATORS	MANUAL CARTRIDGE APPLICATOR	98472	Required for use with LOCTITE® 50 ml cartridges. (Item No. 98455 is also required and must be ordered separately.) For more information on spare parts, nozzles and accessories, please visit <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> .							
	STATIC MIX NOZZLES	98455	Packaged 10/bag – for mixing and dispensing LOCTITE® 50 ml cartridges. For more information on spare parts, nozzles and accessories, please visit <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> .							

ITEMS IN RED = Source's PICK or NEW

\* Properties are based on mixing 1 lb. mass at 77°F, seven days' cure.

‡ Time to reach handling strength.

\*\* At 1/4 in. thickness.

§ Properties based on ultimate cure. Epoxy properties based on mixing 20 g mass at 77°F.

† Ultimate cure.



## LOCTITE® Maintenance & Repair Epoxy Applications Chart

LOCTITE® PRODUCT		EMERGENCY METAL REPAIRS	CORROSION PROTECTION	REPAIRING PIPES & TANKS	REBUILDING SHAFTS, KEYWAYS & BEARINGS	REPAIRING THREADED PARTS	RESTORING TUBE SHEETS	PUMP REPAIR	REPAIRING ENGINE BLOCKS	FIXTURES & PROTOTYPES	REBUILDING IMPELLERS & VALVES	REPAIRING ALUMINUM PARTS	REPAIRING STAINLESS STEEL PARTS	FORMING MOLDS & FIXTURES	WET SURFACE REPAIRS
EPOXY STICKS	<b>EA 3463™ 10-MINUTE REPAIR EPOXY</b>	▲		△						▲				▲	△
	PC 9428™ CONCRETE REPAIR EPOXY	△								△					■
	EA 9480™ UNDERWATER REPAIR EPOXY	△		△											▲
POURABLE	EA 3472™ STEEL-FILLED CASTABLE EPOXY			▲		▲				△				▲	
	PC 3466™ CASTABLE ALUMINUM LIQUID									▲		▲	△	▲	
TROWELABLE	<b>EA 3478™ SUPERIOR METAL</b>		▲		▲	▲	▲	▲	▲		▲				
	EA 3471™ STEEL PUTTY			▲					▲		△			▲	
	PC 7254™ ALUMINUM PUTTY		△								▲	▲	△		
	EA 3476™ STAINLESS STEEL PUTTY		△								▲	△	▲		
	EA 3473™ FAST SET STEEL PUTTY	▲		▲					△						

ITEMS IN RED = Source's PICK or NEW

△ Good Choice ▲ Preferred Choice ■ Acceptable Choice

## LOCTITE® Fixmaster® Maintenance & Repair Epoxy Bonding Characteristics

LOCTITE® PRODUCT		GAP FILLING	FAST CURE TIME	FERROUS METAL REPAIR	TOUGHENED FORMULATION	SHOCK RESISTANT	WATER RESISTANT	PLASTIC BONDING	RUBBER BONDING	METAL BONDING	SANDABLE FINISH	PAINTABLE FINISH
HIGH PERFORMANCE	EA 3473™ FAST SET STEEL EPOXY	△	▲	▲						△	▲	■
	PC 7222™ NORDBAK® WEAR RESISTANT PUTTY	▲			▲	▲	△					■
SPECIALTY PRODUCT	MR 2000™ EXTREME TEMPERATURE REPAIR PUTTY	▲		▲							■	■

△ Good Choice ▲ Preferred Choice ■ Acceptable Choice



# Retaining

121	RETAINING
123	Retaining Compounds
127	Retaining Compound Equipment

## WHY USE A LOCTITE® RETAINING COMPOUND?

LOCTITE® Retaining Compounds secure bearings, bushes and cylindrical parts into housings or onto shafts. They achieve maximum load transmission capability and uniform stress distribution and eliminate fretting corrosion. Applied as a liquid, they form 100% contact between mating metal surfaces, eliminating the need for expensive replacement parts, time consuming machining or the use of mechanical methods.

## LOCTITE® RETAINING COMPOUNDS FILL THE INNER SPACE BETWEEN COMPONENTS AND CURE TO FORM A STRONG PRECISION ASSEMBLY.

LOCTITE® Retaining Compounds are superior to conventional assembly methods, including:

- Pins, key/keyway assemblies: These have uneven distribution of mass, an imbalance that can lead to vibration at high speeds.
- Splines: They cause high stresses due to the “notch effect” that occurs. Splines can also result in high machining costs and backlash between drive and overrun.
- Clamp rings, press fits, shrink fits, and taper fits: They rely on friction alone to transmit torque; therefore, they are limited by material, surfaces and design. Close tolerances are needed to obtain specific load capacities, leading to higher production costs. Interference fitting creates stresses in the components that can lead to failure, particularly when combined with operational stresses.
- Welding and soldering: Only compatible metals can be joined, and the parts can be distorted by the high temperatures required. Heating of the material can lead to residual stresses and structural degradation and distortion. Disassembly can also be difficult or impossible.

## ADVANTAGES OF LOCTITE® RETAINING COMPOUNDS AS COMPARED TO CONVENTIONAL ASSEMBLY METHODS:

- High-strength products can carry high loads
- Fill all voids to prevent corrosion and fretting
- 100% contact – load and stress is distributed evenly over the joint

## ADVANTAGES OF LOCTITE® RETAINING COMPOUNDS IN COMBINATION WITH SHRINK FITS OR PRESS FITS:

- Higher load transmission and performance with existing design and geometry solutions
- Equal performance by lower interference/ lighter construction

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



# Retaining

LOCTITE® adhesive mounting of cylindrical parts has distinct advantages over mechanical assembly alone. Using LOCTITE® retaining compounds allows a manufacturer to use slip-fitted parts with relaxed machining tolerances. LOCTITE® retaining compounds can reduce the size and weight of an assembly, reduce the number of components needed, and ultimately save money by reducing the overall manufacturing cost.

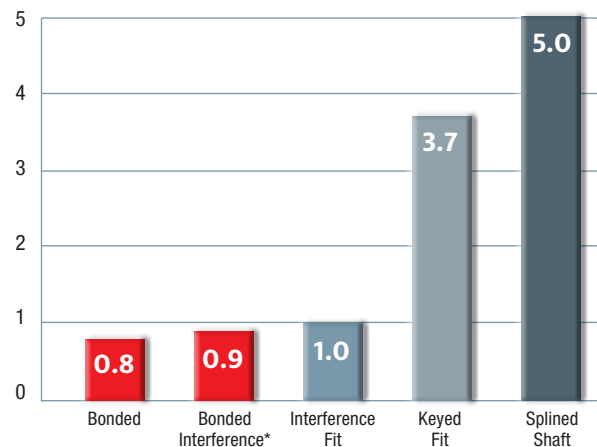
### COST BENEFITS

- Reduce or eliminate expensive machining operations
- Eliminate some surface finishing requirements
- Prolong equipment life through better fatigue and corrosion resistance
- Fill gaps so machining tolerances can be widened
- Help lower overall assembly and maintenance costs
- Simplify assemblies by reducing use of circlips, keys, dowels or threads
- Can eliminate the need for mechanical retainers
- Minimize machine downtime, ensuring an earlier return to service

### PERFORMANCE BENEFITS

- Increase assembly reliability
- Produce more accurate, rigid assemblies
- Eliminate backlash in keys and splines
- Prevent small diameter shaft distortion
- Increase strength of heavy press fits
- Eliminate fretting corrosion
- Seal against environmental corrosion
- Eliminate high assembly stresses
- Reduce variations in load transmission
- Allow dissimilar materials to be assembled more easily

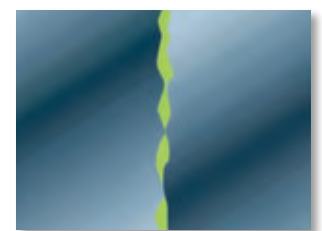
### RELATIVE PRODUCTION COSTS



Cost is always an essential part of the selection process. When LOCTITE® Retaining Compounds are used, considerable cost benefits result.



Typical interference fit has 30% metal-to-metal contact.



LOCTITE® Retaining Compounds fill air voids, resulting in unitized, more reliable assembly.

\* Bonded Interference takes advantage of wider tolerances and relaxed surface roughness.

# Retaining Compounds



## Your Application

- Increase the shear strength of cylindrical, non-threaded assemblies
- An industry standard for assembling press- and slip-fitted parts
- Fill the “inner space” between components and cure to form a strong precision assembly
- Formulated in a variety of viscosities, gap fills, flexibility and strength characteristics
- Can be applied with automated process equipment or dispensed manually

IS THE ASSEMBLY BADLY WORN?

No – Gaps to 0.010 in. (0.25 mm)

What Strength is Required?

High

What Service Temperature is Required?

Up to 355°F (180°C)

Up to 450°F (230°C)

Gap 0.006 in. (0.15 mm)

Gap 0.010 in. (0.25 mm)

648™ Retaining Compound

638™ Retaining Compound

620™ Retaining Compound

## Solution

	648™ Retaining Compound	638™ Retaining Compound	620™ Retaining Compound
<b>Strength Required</b>	High	High	High
<b>Shear Strength</b>	3,900 psi	4,500 psi	3,800 psi
<b>Clearance</b>	Up to 0.006 in. (0.15 mm)	Up to 0.010 in. (0.25 mm)	Up to 0.015 in. (0.38 mm)
<b>Temperature Resistance</b>	355°F (180°C)	355°F (180°C)	450°F (230°C)
<b>Cure Time (Setup/Full Strength)</b>	3 min. / 24 hrs.	4 min. / 24 hrs.	60 min. / 24 hrs.
<b>Recommended Activator</b>	Not Required	Not Required	7088™, 7649™, 7471™

## Product Description

**LOCTITE® 648™ Retaining Compound**  
*General Purpose/High Strength/ Rapid Cure*

Best performance for clearance or interference fit parts. Excellent performance for dynamic, axial and radial loads. Bonds through contaminants including oils, cutting and corrosion protection fluids. Cures on metals without an activator. Globally available product. **NSF/ANSI 61-Certified.**

P/N	Package Size
1844659	0.5 ml capsule
1835922	10 ml bottle
1835920	50 ml bottle
1835918	250 ml bottle
1835917	1 liter bottle

**LOCTITE® 638™ Retaining Compound**  
*Slip Fit/High Strength*

Recommended for slip fit parts with larger gaps. Excellent performance for dynamic, axial and radial loads. Bonds through contaminants including oils, cutting and corrosion protection fluids. Cures on metals without an activator. Globally available product. **NSF P1-Certified.**

P/N	Package Size
1835937	10 ml bottle
1835936	50 ml bottle
1835925	250 ml bottle
1835924	1 liter bottle

**LOCTITE® 620™ Retaining Compound**  
*Slip Fit/High Temperature*

Recommended for high temperature retaining of parts with a clearance or interference fit, i.e., retaining bushings, bearings, seals, fans and liners. Requires heat cure to achieve temperature resistance. **ABS Approved.**

P/N	Package Size
62005	0.5 ml tube
62015	10 ml bottle
62040	50 ml bottle
62070	250 ml bottle
62085	1 liter bottle



Yes – Gaps up to 0.020 in. (0.5 mm) with Activator

Medium

641™ Retaining Compound

660™ Retaining Compound

Medium

High

1,700 psi

3,335 psi

Up to 0.006 in. (0.15 mm)

Up to 0.020 in. (0.50 mm)

300°F (150°C)

300°F (150°C)

20 min. / 24 hrs.

20 min. / 24 hrs.

7088™, 7649™, 7471™

7088™, 7649™, 7471™

**LOCTITE® 641™ Retaining Compound**

A controlled-strength retaining compound that is ideal for cylindrical parts that require disassembly. **CFIA Approved.**

P/N	Package Size
28802	10 ml bottle
21458	50 ml bottle

**LOCTITE® 660™ Retaining Compound**

Used for repairing worn coaxial parts without remachining; enables reuse of worn bearing seats, keys, splines, tapers, or for retaining shims. **CFIA Approved.**

P/N	Package Size
66010	6 ml tube
66040	50 ml tube

**GET THE MOST FROM LOCTITE® RETAINING COMPOUNDS**

From single repairs to daily production line use, these guidelines will help you maximize the benefits of using LOCTITE® Retaining Compounds:

**Surface Cleanliness:** Optimal performance is achieved when parts are clean and free of grease, oil, rust preventative or other contaminants. LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser is one of the recommended cleaners that will effectively remove contaminants without leaving a residue. LOCTITE® Retaining Compounds 638™, 648™ and 680™ are oil tolerant. They are robust enough to bond through contaminants including oils, and cutting and corrosion protecting fluids.

**Cure Process:** LOCTITE® Retaining Compounds have an anaerobic cure system. Anaerobic means it cures in the absence of air and in the presence of metal ions. This is why the resin remains liquid until it is confined between metal parts. Cure speed is usually faster on active metals than inactive metals because active have more metal ions.

Activators accelerate cure time. Activators are often used to assemble inactive metal parts, cold parts or for large gaps. LOCTITE® 648™, 638™ and 680™ are primerless, meaning they cure rapidly without activators for most applications.



INACTIVE METALS (PRIMERS RECOMMENDED)	
PLATED PARTS	SILVER
ANODIZED ALUMINUM (ALODINE®, IRIDITE™)	GOLD
TITANIUM	ZINC
STAINLESS STEEL	PURE ALUMINUM†
GALVANIZED STEEL	CADMIUM
MAGNETITE STEEL	MAGNESIUM
INCONEL™	NATURAL OR BLACK OXIDE
NICKEL	
ACTIVE METALS (PRIMERS OPTIONAL)	
IRON	BRONZE
PLAIN STEEL	MANGANESE
COPPER	MONEL™
BRASS	KOVAR™

**Application Process:** Use an application method that ensures the bond-line is filled. Excess material should be avoided because it could migrate. Several proven methods to control the amount applied, ranging from manual to automated:

- Roll bearing on a synthetic sponge saturated with LOCTITE® Retaining Compound to apply a consistent thin film.
- Manually apply LOCTITE® Retaining Compound with a LOCTITE® Hand Pump. Each squeeze of the trigger dispenses a metered amount of adhesive to the parts prior to assembly.
- Use the LOCTITE® Semiautomatic applicator to dispense a metered amount of adhesive to a predefined dispoint point.
- Use the LOCTITE® RotoSpray™ applicator to automatically dispense a precise band of adhesive to the bore of a circular component.

*The LOCTITE® RotoSpray™ applicator automatically dispenses a perfect bead of retaining compound within the bore of circular components.*

† Pure aluminum is an inactive metal. Alloys of aluminum containing copper are considered active metals.

# Retaining Compounds



LOCTITE® Retaining Compound Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	TYPICAL USE	COLOR	MAXIMUM GAP FILL (DIAMETER-INCHES)	VISCOSITY (cP)	SHEAR STRENGTH STEEL/STEEL* (psi)	TEMPERATURE RANGE	CURE SPEED*	RECOMMENDED PRIMER	AGENCY APPROVALS
CLOSE-FITTING PARTS	<b>603™</b>	21440 21441 21442	10 ml bottle 50 ml bottle 250 ml bottle	For close-fitting parts with light contamination	Green	0.005 in.	125	3,770	-65°F to 300°F (-54°C to 149°C)	Fixture – 10 min. Full – 24 hrs.	7088™, 7649™ or 7471™	N/A
	<b>609™</b>	60905 60921 60931 60941 60943	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Augments press fit parts	Green	0.006 in. (0.15 mm)	125	2,300 (minimum)	-65°F to 300°F (-54°C to 150°C)	Fixture – 10 min. Full – 24 hrs.	7088™, 7649™ or 7471™	MIL-R-46082B for existing designs, ASTM D-5363**, CFIA
	<b>648™</b>	1844659 1835922 1835920 1835918 1835917	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	High strength, primerless, oil tolerant, general purpose	Green	0.006 in. (0.15 mm)	500	3,900	-65°F to 355°F (-54°C to 180°C)	Fixture – 3 min. Full – 24 hrs.	Not required	NSF/ANSI 61, CFIA
LOOSE-FITTING PARTS	<b>638™</b>	1835937 1835936 1835925 1835924	10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	High strength, primerless, oil tolerant, for slip-fitted parts	Green	0.010 in. (0.25 mm)	2,500	4,500	-65°F to 355°F (-54°C to 180°C)	Fixture – 4 min. Full – 24 hrs.	Not required	NSF P1, CFIA
	<b>680™</b>	1835212 1835205 1835201 1835196 1835206	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	High strength, primerless, oil tolerant, for slip-fitted parts	Green	0.015 in. 0.38 mm	1,250	4,000	-65°F to 355°F (-54°C to 180°C)	Fixture – 4 min. Full – 24 hrs.	Not required	NSF/ANSI 61, ABS, CFIA
HIGH TEMPERATURE	<b>620™</b>	62005 62015 62040 62070 62085	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	For high temperature applications	Green	0.015 in. 0.38 mm	8,500	3,800	-65°F to 450°F (-54°C to 230°C)	Fixture – 1 hr. Full – 24 hrs.	7088™, 7649™ or 7471™	CFIA, ABS
MEDIUM STRENGTH	<b>641™</b>	28802 21458	10 ml bottle 50 ml bottle	Medium strength for easier disassembly	Yellow	0.008 in. 0.2 mm	525/1,950 Thixotropic	1,700	-65°F to 300°F (-54°C to 150°C)	Fixture – 20 min. Full – 24 hrs.	7088™, 7649™ or 7471™	CFIA
MACHINERY REPAIR	<b>660™</b>	66010 66040	6 ml tube 50 ml tube	For repair of worn machinery parts	Silver	0.020 in. 0.5 mm	250,000/1,500,000 Thixotropic	3,335	-65°F to 300°F (-54°C to 150°C)	Fixture – 20 min. Full – 24 hrs.	7088™, 7649™ or 7471™	CFIA
SLOW OR UV CURE	<b>232™</b>	18607 27863	1 liter bottle 250 ml bottle	Slow cure for heavy press fit	Brown	0.015 in. 0.38 mm	5,000	1,350* (2 hrs. heat cure)	-65°F to 300°F (-54°C to 150°C)	Fixture – 1 hr. Full – 24 hrs.	7088™, 7649™ or 7471™	N/A
	<b>640™</b>	64031 64041 64043	50 ml bottle 250 ml bottle 1 liter bottle	Slow cure for long assembly time	Green	0.004 in. 0.1 mm	600	3,200	-65°F to 350°F (-54°C to 175°C)	Fixture – 1 hr. Full – 24 hrs.	7649™ or 7471™	MIL-R-46082B, ASTM D-5363
	<b>661™</b>	66141 66170	250 ml bottle 1 liter bottle	UV light cures exposed adhesive	Yellow	0.006 in. 0.15 mm	500	2,175	-65°F to 350°F (-54°C to 175°C)	Fixture – 4 min. Full – 24 hrs.	7649™ or 7471™	N/A

ITEMS IN RED = Source's PICK or NEW

\* Varies with substrates.  
\*\* For new designs.

🌐 = Indicates Worldwide Availability



## LOCTITE® Activators Chart

	LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
ACTIVATORS	SF 7088™ PRIMER	1069258	17 g stick	Teal	Semisolid	No solvent	30 days	None	Anaerobics	CFIA Listed
	SF 7090™ ACTIVATOR	19368 12695	1 fl. oz. bottle 1 liter bottle	Dark Blue	17.5	No solvent	1 hour	None	Anaerobics	N/A
	SF 7471™ PRIMER	19267 22477 19268	1.75 fl. oz. bottle 4.5 oz. net wt. aerosol can 1 gallon can	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, CFIA Listed
	SF 7649™ PRIMER	19269 21347 21348 19266	1.75 fl. oz. glass bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can	Clear/ Green	2	Acetone	30 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed

🌐 = Indicates Worldwide Availability

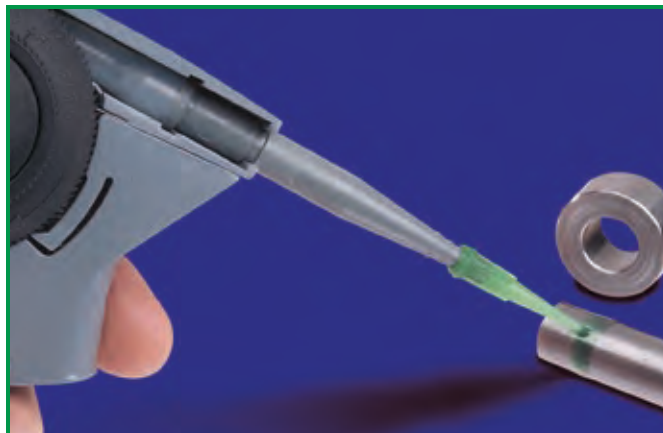
## LOCTITE® Cleaner & Degreaser Chart

	LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	DRYING TIME	RESIDUE/TINSABILITY	ODOR	AGENCY APPROVALS
	SF 7070™ ODC-FREE CLEANER & DEGREASER	22355 20172	15 oz. net wt. aerosol 16 fl. oz. pump spray	Equivalent to the evaporation rate of water. Wiping or blowers will accelerate dry time.	No rinse and no residue	Mild Citrus	NSF K1






# Retaining Compound Equipment



## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



Retaining Compound Equipment



LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE		PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES
<b>PRECISION BORE COATING APPLICATOR</b>									
	<b>LOCTITE® DUAL CHANNEL AUTOMATIC CONTROLLER</b>	97152	1 to 100 psi Viscosity 0 to 3,000 cP	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers		Depends on Reservoir	Medium to High	Yes	Dispense Tips and Accessories – Pages 174-175
<b>SEMI/FULLY AUTOMATIC</b>									
	<b>LOCTITE® POSITIVE DISPLACEMENT PUMP</b>	983330	Positive Displacement	Low to Medium	Drop	Anaerobic Adhesives	Yes	No	Dispense Tips and Accessories – Pages 174-175
	<b>LOCTITE® ROTOSPRAY™ APPLICATOR</b>	97115	Electric	Low to Medium	Bead	Anaerobic Adhesives	N/A	N/A	Dispense Tips and Accessories – Pages 174-175
<b>DUAL CHANNEL DISPENSING</b>									
	<b>INTEGRATED SEMIAUTOMATIC DISPENSER</b>	1390322	0 to 15 psi Viscosity >3,000 cP	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers		250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
		1390321	0 to 100 psi Viscosity 0 to 3,000 cP				Medium to High	Yes	
	<b>LOCTITE® CYANOACRYLATE DISPENSE VALVE</b>	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No	Dispense Tips and Accessories – Pages 174-175



LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE		PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES
<b>RESERVOIRS</b>									
	<b>BOND-A-MATIC® 3000 RESERVOIR</b>	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers		250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
		982726						No	
		982723	0 to 100 psi				Medium to High	Yes	
		982727						No	
<b>BOTTLE DISPENSING</b>									
	<b>50 ML AND 250 ML HAND PUMPS</b>	98414 97001	Retaining Compounds, Threadlockers	50 ml bottle 250 ml bottle	Low to Medium	Manual		Dispense Tips and Accessories – Pages 174-175	






ITEMS IN RED = Source's PICK or NEW




Your Source for Motion Control Robot Dispense Systems. See page 169.



LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
EQUIPMENT FOR PRIMERS	 SPRAY VALVE CONTROLLER	1406023	0 to 100 psi	Primers, Accelerators, Activators	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	No	Use with LOCTITE® Spray Valve, Item Number 98520	
		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
	 SPRAY VALVE	98520	Spray Valve	Low	Spray	Primers, Accelerators, Activators	Yes	No	989268 – 0.014 in. Nozzle Kit 989269 – 0.028 in. Nozzle Kit

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
DISPENSE SYSTEMS	VOLUMETRIC BOTTLE DISPENSING							
	 BENCHTOP PERISTALTIC DISPENSER	98548	Dot, Drop, Bead	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	Any Bottle	0 to 5,000 cP	Programmable	Dispense Tips & Accessories – Pages 174-175
	COMPLETE PRESSURE-TIME BOTTLE DISPENSE SYSTEM							
	 BOND-A-MATIC® 3000 DISPENSER 0-15 psi	982719	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	N/A	Dispense Tips & Accessories – Pages 174-175
		BOND-A-MATIC® 3000 DISPENSER 0-100 psi						

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	ACTUATION	CONSUMABLES – DISPENSE ACCESSORIES
HANDHELD VALVES	GENERAL-PURPOSE APPLICATORS								
	 LV HAND-HELD APPLICATOR	97130	Pneumatic	Low	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Foot	Dispense Tips & Accessories – Pages 174-175
	GENERAL-PURPOSE APPLICATORS								
	 MANUAL HAND-HELD APPLICATOR	97111	Manual	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips & Accessories – Pages 174-175
	 PNEUMATIC HAND-HELD APPLICATOR	97112	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Foot	
 PNEUMATIC HAND-HELD APPLICATOR	97116	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger		
GENERAL-PURPOSE APPLICATORS									
	 VARI-DROP™ APPLICATORS	97131	Pinch Tube	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips & Accessories – Pages 174-175
		97132							

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
VALVES & PUMPS	HIGH PERFORMANCE DIAPHRAGM VALVES								
	 LIGHT CURE DISPENSE VALVE	98009	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No	Dispense Tips and Accessories – Pages 174-175
	GENERAL DUTY DIAPHRAGM VALVES								
	 DIAPHRAGM VALVE	97135	General Duty Diaphragm	0 to 2,500 cP	Drop, Dot, Bead	Light Cure/Acrylics, Instant Adhesives, Retaining Compounds, Threadlockers	No	No	Dispense Tips and Accessories – Pages 174-175
97136		2,500 to 5,000 cP							
HIGH VISCOSITY FLUID AND PASTE VALVES									
 POPPET VALVE	986300	High Viscosity Fluid and Paste	Medium to High	Drop, Bead	Anaerobic Gasketing, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175	



# Surface Cleaning

129	<b>SURFACE PREPARATION</b>
130	Cleaners & Degreasers

## WHY USE LOCTITE® SURFACE PREPARATION PRODUCTS?

LOCTITE® Surface Preparation products are available in both aqueous and solvent formulations. They are engineered to ensure superior cleaning and maximize performance of LOCTITE® adhesives and sealants.

## WHAT CONSIDERATIONS ARE IMPORTANT WHEN CHOOSING A SURFACE PREPARATION PRODUCT?

- Cleaners and Degreasers: The major factors to consider are dry time, residue, odor and substrate compatibility.
- Accelerators: Used to increase cure speed and gap filling capabilities of cyanoacrylate adhesives.
- Activators: Specifically engineered curing agents for structural adhesives.
- LOCTITE® Primers: Used to ensure cure on inactive surfaces and speed the cure of machinery adhesives.

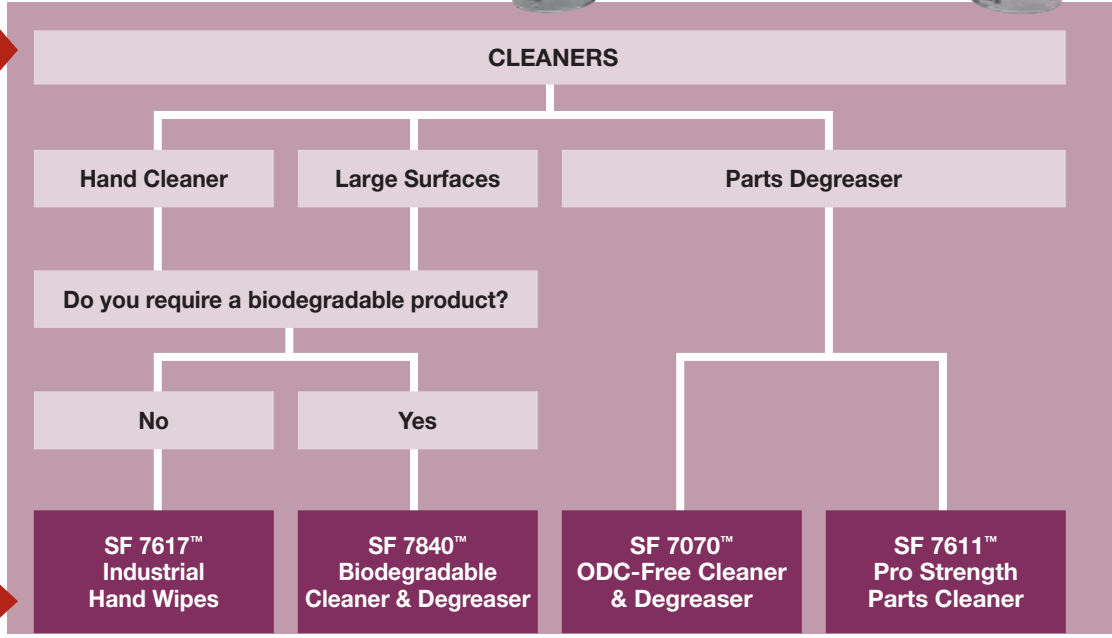
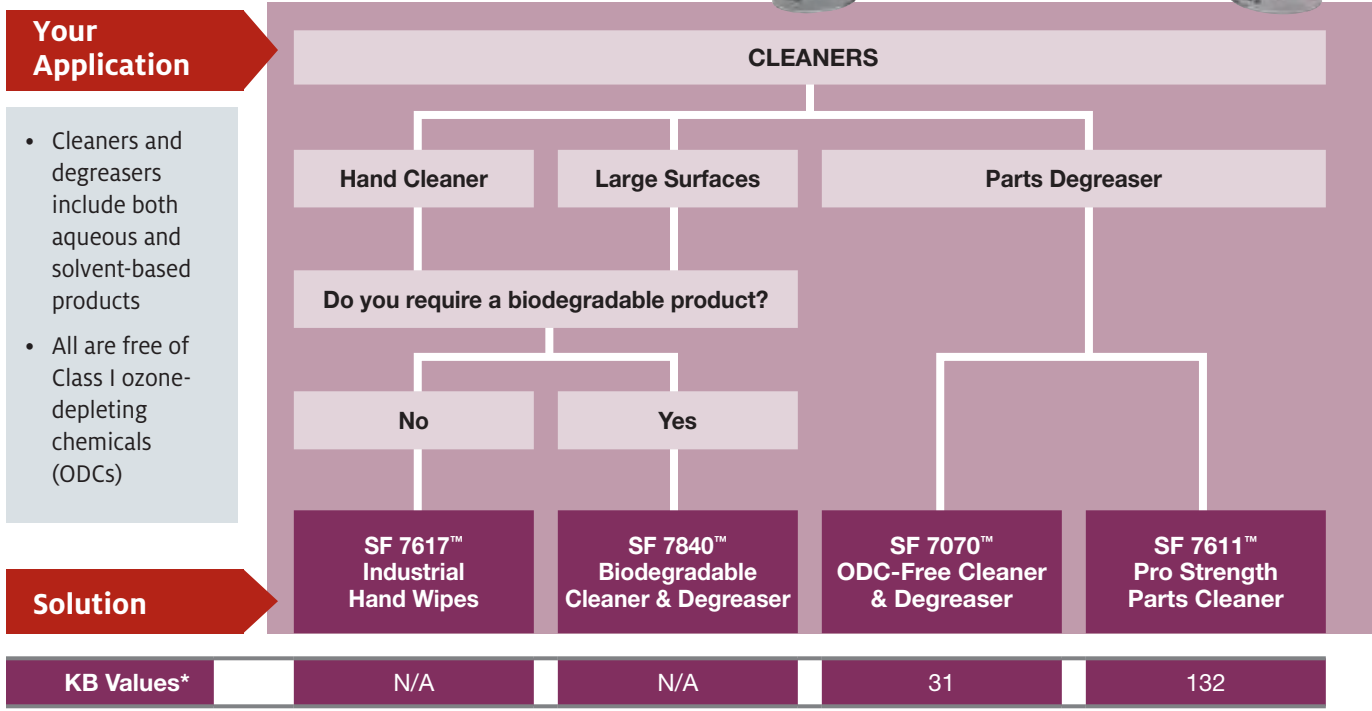
## KEY BENEFITS OF USING LOCTITE® SURFACE PREPARATION PRODUCTS:

- Clean and degrease work surfaces, parts and hands
- Increase cure speed
- Increase gap fill
- Ensure full cure on inactive surfaces
- Available in ozone safe (non-chlorofluorocarbons), solvent-based and solventless formulations

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; within Canada, call **1-800-263-5043**; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

# Cleaners & Degreasers



**Product Description**

**LOCTITE® SF 7617™ Industrial Hand Wipes**  
 Premoistened with a powerful citrus-scented cleaning formula that is abrasive enough to scrub off the toughest grease and grime. Quick and easy-to-use, these 9.5 in. x 12 in. towels eliminate rinsing and drying and leave no residue behind. Perfect for industrial and commercial environments in the painting, printing, maintenance, transportation and construction industries.

P/N	Package Size
34943	75 count canister
34944	130 count bucket

**LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser**  
 Biodegradable, all-purpose, industrial strength, concentrated cleaner and degreaser. Can be economically diluted with water. Formulated for wipe down, pressure spraying and immersion cleaning processes at room temperature or heated. Nonflammable and nontoxic. Contains no ODCs. Available in cherry scented or unscented formulas.

**CFIA Listed.**

P/N	Package Size
2046049	24 fl. oz. spray bottle
2046047	1 gallon bottle
2046048	5 gallon pail
2046043	55 gallon drum

**LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser**  
 A non-aqueous, hydrocarbon-based solvent designed for cleaning and degreasing surfaces to be bonded with adhesives, as well as for general-purpose industrial cleaning. Safe on aluminum, rubber and most plastics, and will not cause flash rusting on water-sensitive parts. Dries residue-free. Contains no ozone-depleting chemicals (ODCs). (Formerly referenced as 7070™.) **NSF K1 Approved.**

P/N	Package Size
22355	15 oz. net wt. aerosol
20172	16 fl. oz. pump spray

**LOCTITE® SF 7611™ Pro Strength Parts Cleaner**  
 Aggressively penetrates, dissolves and removes oil and grease from parts. Dries quickly with no residue. Contains no ozone-depleting chemicals (ODCs). **CFIA Listed.**

P/N	Package Size
30548	19 oz. net wt. aerosol

\* Kauri-Butanol Value tested to ASTM D 1133. (This test method covers the determination of the relative solvent power of hydrocarbon solvents.)

# Cleaners & Degreasers



## LOCTITE® Cleaner & Degreaser Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	DRYING TIME	RESIDUE/RINSABILITY	ODOR	AGENCY APPROVALS
DEGREASERS	<b>SF 7840™ BIODEGRADABLE CLEANER &amp; DEGREASER</b>	2046049 2046047 2046048 2046043	24 fl. oz. spray bottle 1 gallon bottle 5 gallon pail 55 gallon drum	Equivalent to the evaporation rate of water. Wiping or blowers will accelerate dry time.	Rinses residue-free with water	Cherry Scent	CFIA Listed
	<b>SF 7840™ FRAGRANCE-FREE BIODEGRADABLE CLEANER &amp; DEGREASER</b>	2046040 2045989	1 gallon bottle 55 gallon drum	Equivalent to the evaporation rate of water. Wiping or blowers will accelerate dry time.	Rinses residue-free with water	Fragrance-Free	CFIA Listed
	<b>SF 7070™ ODC-FREE CLEANER &amp; DEGREASER</b>	22355 20172	15 oz. net wt. aerosol 16 fl. oz. pump spray	Equivalent to the evaporation rate of water. Wiping or blowers will accelerate dry time.	No rinse and no residue	Mild Citrus	NSF K1
	<b>SF 7635™ PRO STRENGTH DEGREASER</b>	1578099	15 oz. net wt. aerosol	Leave on surface for 10 minutes.	Rinses clean	Mild Solvent	CFIA Listed
PAINT STRIPPERS	<b>SF 790™ PAINT STRIPPER (METHYLENE CHLORIDE)</b>	79040	18 oz. net wt. aerosol	Leave on surface for 5 to 10 minutes. Wipe/scrape clean.	Waxy residue	Solvent	N/A
	<b>SF 7631™ PAINT STRIPPER</b>	1317781	15.25 oz. net wt. aerosol	Leave on surface for 5 to 10 minutes. Wipe/scrape clean.	Oily residue	Solvent	CFIA Listed
GLASS CLEANER / HAND WIPES	<b>SF 7617™ INDUSTRIAL HAND WIPES</b>	34943 34944	75 count canister 130 count bucket	1 to 5 minutes	No rinse and no residue	Powerful Citrus	N/A
PARTS CLEANERS	<b>SF 7633™ NON-CHLORINATED PARTS CLEANER</b>	30545	14.5 oz. net wt. aerosol	5 to 15 minutes	No rinse and no residue	Mild Solvent	CFIA Listed
	<b>SF 7611™ PRO STRENGTH PARTS CLEANER</b>	30548	19 oz. net wt. aerosol	1 to 5 minutes	No rinse and no residue	Mild Solvent	CFIA Listed
	<b>SF 768™ CLEANUP SOLVENT</b>	76820 76871	1.75 fl. oz. bottle 1 gallon can	<30 seconds	No rinse and no residue	Solvent	N/A
STRIPPER / VARNISH REMOVERS	<b>SF 137DA™ PRO STRENGTH VARNISH REMOVER</b>	30529	12 oz. net wt. aerosol	5 minutes	No rinse and no residue	Aromatic	CFIA Listed

ITEMS IN RED = Source's PICK or NEW

## LOCTITE® Cleaner & Degreaser Applications Chart

	LOCTITE® PRODUCT	FUNCTION	APPLICATION
DEGREASERS	<b>SF 7840™ BIODEGRADABLE CLEANER &amp; DEGREASER</b>	Removes grease, grime, oil, soot, cutting fluids, mildew, stains, light carbon, animal fat, polishing compounds and ink.	Cleans engine parts, ovens, exhaust hoods, drilling rigs. Can be diluted for general wipe-down cleaning. Formulated for pressure spraying and immersion cleaning processes, at room temperature or heated.
	SF 7070™ ODC-FREE CLEANER & DEGREASER	Removes grease, oil, lubrication fluids, metal cuttings and filings from parts, equipment and machinery.	Use as a spray or in immersion cleaning processes, at room temperature or heated. Recommended as a final preassembly cleaning treatment for all surfaces bonded with adhesives.
	SF 7635™ PRO STRENGTH DEGREASER	Self-emulsifying degreaser that quickly cuts and removes grease, oil and dirt, as well as inhibits rust and corrosion.	Cleaning and degreasing industrial and farm equipment, lawn mowers, garage floors, tools.
PAINT STRIPPERS	<b>SF 790™ PAINT STRIPPER</b>	Removes precut conventional gasket cements as well as formed-in-place chemical gaskets.	Removes silicones, baked-on gaskets, gaskets from aluminum, small difficult-to-reach components, weather-stripping adhesive, dried oil, grease, paint, varnish.
	<b>SF 7631™ PAINT STRIPPER</b>	Removes precut conventional gasket cements as well as formed-in-place chemical gaskets.	Removes silicones, baked-on gaskets, gaskets from aluminum, small difficult-to-reach components, weather-stripping adhesive, dried oil, grease, paint, varnish.
HAND WIPES	<b>SF 7617™ INDUSTRIAL HAND WIPES</b>	Removes grease, grime, oil, soot, paints and ink.	Removes grease, grime, oil, soot, paints and ink from surfaces. Removes grease and grime from hands.
PARTS CLEANERS	<b>SF 7633™ NON-CHLORINATED PARTS CLEANER</b>	Cleaner for removing oil, grease and asphalt with no chlorinated solvent runoff.	All-purpose metal parts cleaner. Ideal for aluminum surfaces.
	<b>SF 7611™ PRO STRENGTH PARTS CLEANER</b>	Removes oil, grease, brake fluids, oxidized oils (gum) and asphalt. Penetrates through dirt and corrosion and flushes them away.	All-purpose metal parts cleaner.
	SF 768™ CLEAN UP SOLVENT	Dissolves cured cyanoacrylate-based adhesives.	Disassembly of parts and cleanup of dispensing equipment.
STRIPPER/VARNISH REMOVERS	<b>SF 137DA™ PRO STRENGTH VARNISH REMOVER</b>	Dissolves and cleans residue deposited during normal operation of gasoline engine powered equipment.	Carburetors, chokes, linkages, heat risers, PCV valves, metal parts, industrial equipment.

ITEMS IN RED = Source's PICK or NEW

# Threadlocking



133	THREADLOCKING
135	Threadlockers
139	Threadlocker Equipment

## WHY USE A LOCTITE® THREADLOCKER?

LOCTITE® threadlockers are vastly superior to mechanical locking devices for the assembly of threaded fasteners. The anaerobic liquid is applied drop-wise to the threads of a fastener and cures to a hard thermoset plastic that locks the threads together. This prevents unwanted movement, loosening, leaks and/or corrosion. To further enhance their performance, anaerobic formulations have been developed for applications with high temperatures, oil contamination and less active surfaces.

LOCTITE® threadlockers have historically been formulated as liquids due to their reactivity; in liquid form they remain stable and ready for use. Recent breakthroughs have led to the development of stable, semisolid stick formulations. This has opened the door to applications where the liquids were considered too messy or inconvenient. The new semisolid formulations allow direct contact of the anaerobic product to the part – the product is placed exactly where it is needed, and it stays in place as the threaded part is positioned and assembled.

## LOCTITE® THREADLOCKERS ARE MUCH SUPERIOR TO TRADITIONAL MECHANICAL LOCKING METHODS:

- Mechanical devices such as split pins, tab washers: These are only used to prevent the loss of nuts and bolts.
- Friction devices: They add to absolute elasticity and/or increase friction but will not ensure permanent threadlocking under dynamic loads.
- Locking devices, like tooth flanged and ribbed flanged bolts, nuts and washers: They prevent self-loosening but are expensive and need larger flange-bearing surfaces. They may damage the surfaces.

LOCTITE® Threadlockers are single-component liquid and semisolid adhesives. They cure at room temperature to a hard solid thermoset plastic when applied between steel, aluminum, brass and most other metal surfaces. They cure in the absence of air. The adhesive completely fills the gaps between mating threads to lock threads and joints.

## ADVANTAGES OF LOCTITE® THREADLOCKERS AS COMPARED TO TRADITIONAL MECHANICAL LOCKING DEVICES:

- Prevent unwanted movement, loosening, leaks, and corrosion
- Resist vibration
- Single-component – clean and easy to apply
- Can be used on all sizes of fasteners – reduces inventory costs
- Seal threads – allow through-hole tapping

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; *within Canada, call 1-800-263-5043*; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



# Threadlocking

### IS THERE A THREADLOCKER FOR HIGH-TEMPERATURE APPLICATIONS?

Yes, Henkel has threadlockers for applications below 300°F (150°C) and between 300°F (150°C) to 650°F (343°C). One example is LOCTITE® 2422™, a medium strength product for temperatures up to 650°F (343°C). Other high-temperature products can be found in the Properties Chart.

### ARE THERE PRODUCTS THAT WORK WELL ON OILY PARTS?

There are several LOCTITE® products with oil-cutting capabilities. These include LOCTITE® 243™, 248™, 263™, 268™ and 294™ threadlockers. Use the Properties Chart to choose the one that is right for your application.

### WHAT DO I DO WHEN I HAVE A BLIND HOLE APPLICATION?

The application method for blind hole assemblies requires that the product be applied to both parts. If the product is applied to the fastener only, air pressure will force the liquid threadlocker to escape as you torque down.

### DO YOU HAVE A PRODUCT FOR INACTIVE METALS?

LOCTITE® 243™ and 263™ threadlockers enable the assembly of inactive metals without the need to use a primer. These products are ideal for use on metals such as stainless steel, zinc, magnesium, black oxide, cadmium, anodized aluminum, passivated titanium and others.

### HOW MUCH TIME IS NEEDED FOR FULL CURE?

Most anaerobic adhesives attain full cure in around 24 hours but will fixture in less time. For cure speed of the various products, refer to the Properties Chart or to the Technical Data Sheets (TDS).

### CAN I USE THREADLOCKERS ON PLASTIC THREADS?

For plastic fasteners, only use LOCTITE® 425™ Instant Adhesive, a surface curing threadlocker.

### WHEN SHOULD I USE A PRIMER?

Primers help speed the curing process for faster return to service. For this reason, they can be used in any application but are most often used on less active metal surfaces. If the threadlocker will be applied below 40°F, pretreat parts with LOCTITE® SF 7649™ Primer. Alternatively, the use of LOCTITE® 243™ and 263™ primerless products provides a fast cure on inactive surfaces.

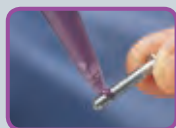
## The Source ANSWERS YOUR QUESTIONS



### CHOOSING THE RIGHT THREADLOCKER FOR YOUR APPLICATION

How do I decide which threadlocker to use?

LOCTITE® threadlockers are available in many grades to satisfy a wide range of applications. To make grade selection easy, the grades are color-coded to help you identify one threadlocker from the other.



**LOW STRENGTH** – Purple color, removable with hand tools, good for adjustment screws, calibration screws, meters and gauges, and for fasteners up to ¼ in. in diameter.



**HIGH STRENGTH** – Red color, for permanent assemblies, heavy equipment, suspension bolts, motor and pump mounts, bearing cap bolts and studs.



**MEDIUM STRENGTH** – Blue color, removable with hand tools, good for machine tools and presses, pumps and compressors, mounting bolts, gearboxes, and for fasteners over ¼ in. in diameter. Available in liquid, tape and stick formats.



**WICKING** – Green color, removable with heat and hand tools, for preassembled fasteners, instrumentation screws, electrical connectors, carburetors and fasteners.

# Threadlockers



## Your Application

- Prevent loosening from shock and vibration
- Single component – clean and easy to apply
- Can be used on various sizes of fasteners – reduces inventory costs
- Seal threads
- Stop rust and corrosion
- Available in a variety of viscosities and strengths for virtually any application

## Solution

ARE THE PARTS ALREADY ASSEMBLED?

No

What strength do you require?

Low – Purple

Medium – Blue  
(Disassemble with hand tools)

222MS™

243™

248™

249™  
Threadlocker  
Tape

Chemistry	Liquid Anaerobic	Liquid Anaerobic	Semisolid Anaerobic	Tape Anaerobic
Color	Purple	Blue	Blue	Blue
Viscosity (cP)	1,200/5,000 Thixotropic	1,300/3,000 Thixotropic	Semisolid	Tape
Torque (in.-lbs.) (Break/Prevail)	53/30	230/40	222/36	74/47
Fixture Time	10 min.	5 min.	5 min.	30 min.
Cure Time (Hours)	24 hrs.	24 hrs.	24 hrs.	24 hrs.
Temperature Resistance	300°F	360°F	300°F	300°F
Recommended Primer	SF 7088™, SF 7649™, SF 7471™	Not Required	SF 7088™, SF 7649™, SF 7471™	SF 7088™, SF 7649™, SF 7471™

## Product Description

### LOCTITE® 222MS™ Threadlocker

#### Low Strength/ Small Screw

Recommended for low strength threadlocking of adjustment screws, countersunk head screws, and set screws; on collars, pulleys, tool holders and controllers. Also for low strength metals such as aluminum or brass.

**Mil-Spec (S-46163A)  
Type II, Grade M.  
NSF P1 Certified.**

P/N	Package Size
22205	0.5 ml tube
22221	10 ml bottle
22231	50 ml bottle
22241	250 ml bottle

### LOCTITE® 243™ Blue Threadlocker

#### Medium Strength/ Primerless

Versatile, medium strength liquid threadlocker. Reliably locks and seals metal fasteners up to 3/4 in. Engineered to cure consistently on a variety of metals including stainless steel and most plated fasteners. Tolerates minor surface contaminants, anti-corrosion and protection fluids. Rated for 360°F (180°C). Removable with hand tools.

P/N	Package Size
1330255	0.5 ml capsule
1329837	10 ml bottle
1329467	50 ml bottle
1329505	250 ml bottle
1330333	1 liter bottle

### LOCTITE® 248™ Blue Threadlocker

#### Semisolid/Medium Strength/Primerless

Semisolid stick form is convenient, portable and great for hard-to-reach applications. Engineered to cure consistently on a variety of metals including stainless steel and most plated fasteners. Tolerates minor surface contaminants, anti-corrosion and protection fluids. Removable with hand tools.

P/N	Package Size
37684	9 g stick
37087	19 g stick

### LOCTITE® 249™ Blue Threadlocker Tape

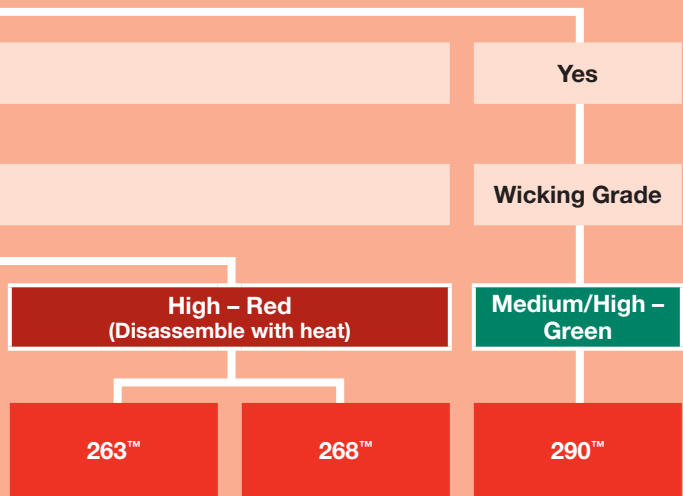
#### Tape/Medium Strength

The one and only threadlocker in a tape form. This revolutionary product offers the same reliability and performance as LOCTITE® removable grade threadlocking liquids. Convenient, durable package is a must for every toolbox. It is easy to apply and can be reapplied for future assembly.

**CFIA Listed.**

P/N	Package Size
1372603	260 in. roll





Liquid Anaerobic	Semisolid Anaerobic	Liquid Anaerobic
Red	Red	Green
400/600 Thixotropic	Semisolid	25/55
290/290	311/83	90/260
10 min.	5 min.	20 min.
24 hrs.	24 hrs.	24 hrs.
-65°F to 360°F	-65°F to 300°F	-65°F to 300°F
Not Required	SF 7088™, SF 7649™, SF 7471™	SF 7088™, SF 7649™, SF 7471™

#### LOCTITE® 263™ Red Threadlocker

##### High Strength/Primerless

Versatile, high strength liquid threadlocker. Reliably locks and seals metal fasteners up to 1 in. Engineered to cure consistently on a variety of metals including stainless steel and most plated fasteners. Tolerates minor surface contaminants, anti-corrosion and protection fluids. Rated for 360°F (180°C). Heat required for removal.

P/N	Package Size
1330582	0.5 ml capsule
1330583	10 ml bottle
1330585	50 ml bottle
1330335	250 ml bottle
1330334	1 liter bottle

#### LOCTITE® 268™ Semisolid Threadlocker

##### Semisolid/High Strength/Primerless

Semisolid stick form is convenient, portable and great for hard-to-reach applications. Engineered to cure consistently on a variety of metals including stainless steel and most plated fasteners. Tolerates minor surface contaminants, anti-corrosion and protection fluids. Rated to 300°F (180°C). Heat required for removal.

P/N	Package Size
37685	9 g stick
37686	19 g stick

#### LOCTITE® 290™ Wicking Grade Threadlocker

##### Wicking Grade/High Strength

Recommended for locking preassembled fasteners, i.e., instrumentation screws, electrical connectors and set screws. Also seals porosities in welds and metal parts. **Mil Spec (S-46163A) Type III, Grade R. NSF/ANSI 61 Certified.**

P/N	Package Size
29005	0.5 ml tube
29021	10 ml bottle
29031	50 ml bottle
29041	250 ml bottle
29043	1 liter bottle

### WHEN SHOULD A LOCTITE® PRIMER BE USED?

LOCTITE® anaerobic threadlockers cure (1) in the absence of air, and (2) in the presence of metal ions. When assembling inactive metal parts – which are low in metal ions – use of a LOCTITE® Primer is strongly recommended to ensure proper performance.

HELPFUL HINTS

INACTIVE METALS (PRIMERS RECOMMENDED)		ACTIVE METALS (PRIMERS OPTIONAL)
PLATED PARTS	SILVER	IRON
ANODIZED ALUMINUM (ALODINE®, IRIDITE™)	GOLD	PLAIN STEEL
TITANIUM	ZINC	COPPER
STAINLESS STEEL	PURE	BRASS
GALVANIZED STEEL	ALUMINUM†	BRONZE
MAGNETITE STEEL	CADMIUM	MANGANESE
INCONEL™	MAGNESIUM	MONEL™
NICKEL	NATURAL OR CHEMICAL BLACK OXIDE	KOVAR™

Primers also help speed up cure rates. Fixture time can be reduced from several hours to minutes, allowing faster assembly and production throughput.

LOCTITE® primers are also recommended when assembling metal parts that are cold, have large gaps or deep threads.

**NOTE:** Using a primer will decrease ultimate bond strength.



### THREADLOCKING PREP STEPS

- Clean parts with LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser before applying threadlocker.
- If the parts were in contact with aqueous washing solutions or cutting fluids, which leave a protective layer on the surface, wash with hot water before use.
- If the threadlocker will be applied below 40°F, pretreat parts with LOCTITE® SF 7649™ Primer.

HELPFUL HINTS

† Pure aluminum is an inactive metal. Alloys of aluminum containing copper are considered active metals.

# Threadlockers



## LOCTITE® General-Purpose Threadlocker Properties Chart

KEY FACTORS	KEY FEATURES	TYPICAL USE	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY† (cP)	TORQUE‡ IN.-LBS. (BREAK/PREVAIL)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS	
GENERAL-PURPOSE THREADLOCKERS	Low Strength	Small screws under 1/4"	222™	21463 21464	10 ml bottle 50 ml bottle	Purple	1,200 / 5,000 Thixotropic	53 / 30	-65°F to 300°F	Fixture – 20 min. Full – 24 hrs.	N/A	
	Medium Strength	General-Purpose	1/4" to 3/4" bolts, primerless, tolerates surface contaminants	243™	1330255 1329837 1329467 1329505 1330333	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Blue	1,300 / 3,000 Thixotropic	230 / 40	-65°F to 360°F	Fixture – 10 min. Full – 24 hrs.	NSF/ANSI 61, CFIA Listed
		Semisolid Stick	1/4" to 3/4" bolts, overhead, hard-to-reach areas	248™	37684 37087	9 g stick 19 g stick	Blue	Semisolid	226* / 36	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA Listed
	Tape	1/4" to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas	249™ <b>THREADLOCKER TAPE</b>	1372603	260" roll	Blue	Tape	74 / 47	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	CFIA Listed	
	High Strength	General-Purpose	Primerless, up to 1" bolts, tolerates surface contaminants	263™	1330582 1330583 1330585 1330335 1330334	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	400 / 600	290 / 290*	-65°F to 360°F	Fixture – 10 min. Full – 24 hrs.	NSF/ANSI 61, CFIA Listed
		Semisolid Stick	Up to 3/4" bolts, primerless, overhead, hard-to-reach areas, tolerates surface contaminants	268™	37685 37686	9 g stick 19 g stick	Red	Semisolid	311* / 83	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA Listed
Wicking Grade	General-Purpose	Medium/high strength, wicking grade for preassembled parts and weld sealing	290™	29005 29021 29031 29041 29043	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Green	25 / 55	90 / 260	-65°F to 300°F	Fixture – 20 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF/ANSI 61, NSF P1, CFIA Listed	

## LOCTITE® Specialty Threadlocker Properties Chart

KEY FACTORS	KEY FEATURES	TYPICAL USE	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY† (cP)	TORQUE‡ IN.-LBS. (BREAK/PREVAIL)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS
SPECIALTY THREADLOCKERS	High Temperature	High temperature, medium strength	246™	29513 29514 29515	10 ml bottle 50 ml bottle 250 ml bottle	Blue	2,600	170 / 48*	-65°F to 450°F	Fixture – 5 min. Full – 24 hrs.	N/A
	Ultra High Temperature	Ultra high temperature, medium strength for 1/2" to 3/4" bolts	2422™	1134601	30 ml syringe	Blue	Paste	102 / 12	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	N/A
	Enhanced Health & Safety	Removable strength	2400 NA™	1526121 1526122	50 ml bottle 250 ml bottle	Blue	3,070 Thixotropic	160 / 20	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	N/A
	Food Compliant	For use in food and beverage applications	2046™	1186840 1197606	0.40 fl. oz. dual cartridge (12 ml) static mix nozzle (10 pk.)	Blue	Paste	111 / 60	-65°F to 400°F	Fixture – 90 min. Full – 24 hrs.	21 C.F.R. § 175.300
	Low Halogen/ Low Sulfur	For use in nuclear facilities	2432™	25523	50 ml bottle	Blue	300	150 / 53 (black oxide steel nuts and bolts)	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	N/A

ITEMS IN RED = Source's PICK or NEW

= Indicates Worldwide Availability

\* Break loose value.



\*\* For new designs.

† Brookfield RVT spindle 3.20 RPM/25 RPM.


‡ M10 steel nuts and bolts.

PLEASE NOTE: A complete line of surface primers is available. Refer to the Surface Cleaning section, 129-132.



## LOCTITE® Specialty Threadlocker Properties Chart

KEY FACTORS	KEY FEATURES	TYPICAL USE	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY <sup>†</sup> (cP)	TORQUE <sup>‡</sup> IN.-LBS. (BREAK/PREVAL)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS	
SPECIALTY THREADLOCKERS	High Strength	High Temperature	High temperature applications	272™ 	27240 27270 27285	50 ml bottle 250 ml bottle 1 liter bottle	Red	9,500	200 / 220	-65°F to 450°F	Fixture – 1 hr. Full – 24 hrs.	CFIA Listed
		Ultra High Temperature	Ultra high temperature, high strength for 1/2" to 3/4" bolts	2620™	1138282	30 g syringe	Red	Paste	161 / 10	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	CFIA Listed
		Enhanced Health & Safety	High strength	2700 NA™ 	1526123 1526565	50 ml bottle 250 ml bottle	Red	5,000 Thixotropic	300 / 265	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	N/A
		High Lubricity (Large Bolts)	Large bolts >7/8": High lubricity delivers higher clamp load than 277™	2047™	1134607	50 ml bottle	Black	2,000 / 12,000 Thixotropic	375 / 80	-65°F to 300°F	Fixture – 90 min. Full – 24 hrs.	CFIA Listed
Plastic	Plastic Fasteners	For small metal and plastic fasteners and tamper-proofing	425™	42540	20 g bottle	Blue	80	4 / 2	-65°F to 180°F	Fixture – 1.5 min. Full – 24 hrs.	N/A	

## LOCTITE® MIL Spec Threadlocker Properties Chart

KEY FACTORS	TYPICAL USE	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY <sup>†</sup> (cP)	TORQUE <sup>‡</sup> IN.-LBS. (BREAK/PREVAL)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS			
MIL SPEC THREADLOCKERS	Low Strength	Easy removal, small screws under 1/4"	222MS™	22205 22221 22231 22241	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle	Purple	1,200 / 5,000 Thixotropic	53 / 30	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF P1, CFIA Listed		
			Medium Strength	Removable grade, 1/4" up to 3/4" bolts	242°	24205 24221 24231 24241 24243	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Blue	1,200 / 5,000 Thixotropic	110 / 43	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF/ANSI 61, NSF P1, ABS, CFIA Listed
					High Strength	High strength locking, up to 3/4" bolts	262™	26205 26221 26231 26241 26243	0.5 ml capsule 10 ml tube 50 ml bottle 250 ml bottle 1 liter bottle	Red	1,800 / 5,000 Thixotropic	189 / 275	-65°F to 300°F
	High Strength	High strength for fasteners up to 1" diameter					271™	27105 27121 27131 27141 27143	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	500	250 / 275	-65°F to 300°F
			Wicking Grade	Permanent for large bolts >7/8"	277™	21434 27731 27741 27743	10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	7,000	275 / 275	-65°F to 300°F	Fixture – 60 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**
	Wicking Grade	Low strength wicking grade for preassembled fasteners under 1/4"			220™	37388 39186 22041	10 ml bottle 50 ml bottle 250 ml bottle	Blue	20	85 / 170	-65°F to 300°F	Fixture – 6 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, CFIA Listed
Wicking Grade			Medium/high strength, wicking grade for preassembled parts	290™ 	29005 29021 29031 29041 29043	0.5 ml tube 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Green	25 / 55	90 / 260	-65°F to 300°F	Fixture – 20 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF/ANSI 61, NSF P1, CFIA Listed	

## LOCTITE® Activator Properties Chart

LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
SF 7088™ PRIMER	1069258	17 g stick	Teal	Semisolid	No solvent	30 days	None	Anaerobics	CFIA Listed
SF 7090™ ACTIVATOR	19368 12695	1 fl. oz. bottle 1 liter bottle	Dark Blue	17.5	No solvent	1 hour	None	Anaerobics	N/A
SF 7471™ PRIMER 	19267 22477	1.75 fl. oz. glass bottle 4.5 oz. net wt. aerosol can 1 gallon can	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, CFIA Listed
SF 7649™ PRIMER 	19269 21347 21348 19266	1.75 fl. oz. glass bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can	Clear/ Green	2	Acetone	30 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed

ITEMS IN RED = Source's PICK or NEW

 = Indicates Worldwide Availability

\*\* For new designs.  
† Brookfield RVT spindle 3.20 RPM/25 RPM.  
‡ M10 steel nuts and bolts.

PLEASE NOTE: A complete line of surface primers is available. Refer to the Surface Cleaning section, 129-132.



The Adhesive Sourcebook 2017: Your Source for LOCTITE® products for design, assembly, manufacturing and maintenance






# Threadlocker Equipment

## YOUR EQUIPMENT *Source*

For more details, see the *LOCTITE® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).










LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	TYPE	CONSUMABLES – DISPENSE ACCESSORIES
<b>BOTTLE DISPENSING</b>							
<b>HANDHELD APPLICATORS</b>	 <b>50 ML AND 250 ML HAND PUMPS</b>	98414 97001	Retaining Compounds, Threadlockers	50 ml bottle 250 ml bottle	Low to Medium	Manual	Dispense Tips and Accessories – Pages 174-175
	<b>TUBE DISPENSING</b>						
	 <b>50 ML-F TUBE SQUEEZE DISPENSER</b>	1083845	Any 50 ml tube	50 ml tubes	Low to High	Manual	N/A








LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
<b>INTEGRATED RESERVOIR CONTROLLERS</b>									
<b>CONTROLLERS &amp; RESERVOIRS</b>		1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175	
		1390321	0 to 100 psi				Yes		
		<b>BOND-A-MATIC® 3000 RESERVOIR</b>	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium		Yes
			982726						No
982723			0 to 100 psi	Yes					
982727				No					
	<b>SHOT MISER™ RESERVOIR</b>	98090	0 to 100 psi	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 200 g squeeze tube	Low to High	No		
	<b>4 LITER GRAVITY FEED RESERVOIR</b>	982880	N/A	Retaining Compounds, Threadlockers	Direct Fill	Low to Medium	Yes		
<b>MULTI-FUNCTION CONTROLLER</b>									
	<b>LOCTITE® SPRAY VALVE CONTROLLER</b>	1406023	0 to 100 psi	Primers, Accelerators, Activators	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	No	Use with LOCTITE® Spray Valve, Item Number 98520	

ITEMS IN RED = *Source's PICK* or *NEW*

For more LOCTITE® branded equipment, go to page 163. Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com).

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
DISPENSE SYSTEMS	<b>VOLUMETRIC BOTTLE DISPENSING</b>								
		BENCHTOP PERISTALTIC DISPENSER	98548	Dot, Drop, Bead	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	Any Bottle	0 to 5,000 cP	Programmable	Dispense Tips and Accessories – Pages 174-175
	<b>COMPLETE PRESSURE-TIME BOTTLE DISPENSE SYSTEM</b>								
	BOND-A-MATIC® 3000 DISPENSER 0-15 PSI	982719	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	N/A	Dispense Tips and Accessories – Pages 174-175	
	BOND-A-MATIC® 3000 DISPENSER 0-100 PSI	982722							

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	ACTUATION	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD VALVES	<b>GENERAL-PURPOSE APPLICATORS</b>									
		LV HAND-HELD APPLICATOR	97130	Pneumatic	Low	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Foot	Dispense Tips and Accessories – Pages 174-175
	<b>GENERAL-PURPOSE APPLICATORS</b>									
		MANUAL HAND-HELD APPLICATOR	97111	Manual	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175
		PNEUMATIC HAND-HELD APPLICATOR	97112	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Foot	
	PNEUMATIC HAND-HELD APPLICATOR	97116	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger		
<b>GENERAL-PURPOSE APPLICATORS</b>										
	VARI-DROP™ APPLICATORS	97131 97132	Pinch Tube	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175	

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
VALVES & PUMPS	<b>HIGH PRECISION VALVES</b>									
		LOCTITE® SPRAY VALVE	98520	Spray Valve	Low	Spray	Primers, Accelerators, Activators	Yes	No	989268 – 0.014" Nozzle Kit 989269 – 0.028" Nozzle Kit
	<b>HIGH PRECISION VALVES</b>									
		STATIONARY APPLICATOR VALVE	97113 97114	High Precision	Low to Medium	Drop, Dot, Bead	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
	<b>HIGH PERFORMANCE DIAPHRAGM VALVES</b>									
		LIGHT CURE DISPENSE VALVE	98009	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Light Cure Adhesives, Retaining Compounds, Threadlockers	Yes	No	Dispense Tips and Accessories – Pages 174-175
		CYANOACRYLATE DISPENSE VALVE	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdot	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No	
	<b>GENERAL DUTY DIAPHRAGM VALVES</b>									
		DIAPHRAGM VALVE	97135 97136	General Duty Diaphragm	0 to 2,500 cP	Drop, Dot, Bead	Light Cure/Acrylics, Instant Adhesives, Retaining Compounds, Threadlockers	No	No	Dispense Tips and Accessories – Pages 174-175
					2,500 to 5,000 cP					
<b>HIGH VISCOSITY FLUID AND PASTE VALVES</b>										
	POPPET VALVE	986300	High Viscosity Fluid and Paste	Medium to High	Drop, Bead	Anaerobic Gasketing, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175	
<b>POSITIVE DISPLACEMENT PUMP</b>										
	POSITIVE DISPLACEMENT PUMP	983330	Positive Displacement Pump	Low to Medium	Drop	Retaining Compounds, Threadlockers, Any single-component, non-moisture-curing, low- to medium-viscosity fluid (<100,000 cP)	Yes	No	Dispense Tips and Accessories – Pages 174-175	



# Thread Sealing

141	THREAD SEALING
143	Thread Sealants
147	Thread Sealant Equipment

## WHY USE A LOCTITE® THREAD SEALANT?

LOCTITE® Thread Sealants prevent leakage of gases and liquids. Designed for low- and high-pressure applications, they fill the space between threaded parts and provide an instant, low-pressure seal. When fully cured, they seal to the burst pressure of most pipe systems.

### LOCTITE® SEALANTS ARE MUCH SUPERIOR TO TRADITIONAL SEALANT TYPES:

- Solvent-based sealing compounds: Shrink during cure as solvents evaporate. Fittings must be re-torqued to minimize voids. They lock the assembly by a combination of friction and deformation.
- PTFE tape: Lubricates in off direction, allowing fittings to loosen under dynamic loads, resulting in loss of clamping force and leakage. Dynamic loads may accelerate creep, causing leakage over time. The lubricating effect of PTFE frequently results in over-tightening of fasteners, adding stress or causing breakage of parts. Application requires good professional skills to avoid stressing fittings or castings.

### ADVANTAGES OF LOCTITE® THREAD SEALANTS AS COMPARED TO TRADITIONAL SEALANT TYPES:

- Single-component – clean and easy to apply
- Do not creep, shrink or block systems
- Can be used on any size of pipe fitting
- Replace all types of tape and paste sealants
- The seal resists vibration and shock loads
- Products are available with potable water and gas approvals
- Protect mated threaded areas against corrosion and galling

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call 1-800-LOCTITE (562-8483); within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



## Thread Sealing

142

Thread Sealing

### Old Way: Pastes, Tapes & Dopes



### Better Way: LOCTITE® Thread Sealants



- Complete contact between threads, 100% seal
- Will not creep, shrink, shred or block systems
- Easy disassembly
- Prevent corrosion

# Thread Sealants



## Your Application

- Prevent leaks
- Single component – quick and easy to apply
- Can be used on any size pipe fitting and seal to the burst strength of most piping systems
- Prevent thread corrosion
- Seal and secure metal pipes and fittings, filling the space between threaded metal parts and hardening to prevent leakage
- Designed for high- and low-pressure applications
- Controlled strength for ease of disassembly

## Solution

ARE THE PARTS METAL OR PLASTIC?

Metal Parts

Are you working with hydraulic fittings?

Yes

No

Do you prefer a paste or a semisolid?

Paste

**LOCTITE® 545™**  
Thread Sealant  
(Hydraulic & Pneumatic)

**LOCTITE® 565™**  
Thread Sealant

**LOCTITE® 567™**  
Thread Sealant

	LOCTITE® 545™ Thread Sealant (Hydraulic & Pneumatic)	LOCTITE® 565™ Thread Sealant	LOCTITE® 567™ Thread Sealant
<b>Chemistry</b>	Anaerobic	Anaerobic	Anaerobic
<b>Color</b>	Purple	White	White
<b>Viscosity (cP)</b>	14,000	300,000	540,000
<b>Pressure Resistance (psi)</b>	10,000	10,000	10,000
<b>Cure Time (hours)</b>	24 hours	24 hours	24 hours
<b>Temperature Resistance</b>	-65°F to 300°F	-65°F to 300°F	-65°F to 400°F
<b>Recommended Primer</b>	SF 7088™, SF 7649™ or SF 7471™	SF 7088™, SF 7649™ or SF 7471™	SF 7088™, SF 7649™ or SF 7471™

## Product Description

### LOCTITE® 545™ Thread Sealant

Recommended for fine threaded fittings as used in hydraulic and pneumatic installations and small fittings in general.

**ABS Approved.**  
**CFIA Listed.**

P/N	Package Size
54505	0.5 ml tube
32429	10 ml bottle
54531	50 ml bottle
54541	250 ml bottle

### LOCTITE® 565™ Thread Sealant

A general-purpose instant sealant for tapered and straight/ tapered fittings.

**CSA 3319-81 and 3319-01.**  
**UL MH007(N).**  
**NSF/ANSI 61 Certified.**  
**ULC-Canada Approved.**  
**CFIA Listed.**

P/N	Package Size
56507	6 ml tube
56531	50 ml tube
56541	250 ml tube
56571	300 ml cartridge
56543	1 liter bottle
56566	10 liter pail

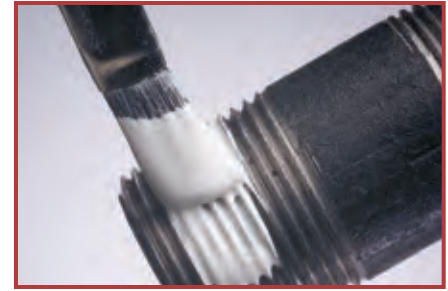
### LOCTITE® 567™ Thread Sealant

A general-purpose instant sealant for tapered and straight/ tapered fittings. Rated to 400°F.

**UL MH007(N).**  
**NSF/ANSI 61 Certified.**  
**ULC-Canada Approved.**  
**CFIA Listed.**

P/N	Package Size
2087068	6 ml tube
2087067	50 ml tube
2087069	250 ml tube
2087072	350 ml brush-top container
2087073	1 liter bottle





Plastic

Semisolid

LOCTITE® 561™ Pipe Sealant with PTFE

MR 5438™

Anaerobic	Non-Anaerobic
White	White
Semisolid	90,000 to 110,000
10,000	5,000
24 hours	24 hours
-65°F to 300°F	-65°F to 300°F
SF 7088™, SF 7649™ or SF 7471™	N/A

**LOCTITE® 561™ Pipe Sealant with PTFE**

Semisolid stick form is convenient, portable and less messy. Formulated for fast, reliable curing on metal, tapered pipe threads and fittings. Provides high pressure sealing and withstands continuous operating temperatures of -65°F to 300°F (-54°C to 150°C). **NSF/ANSI 61 Certified.**

**P/N Package Size**  
37127 19 g stick

**LOCTITE® MR 5438™ White Threaded Plastic Pipe Sealant**

Recommended for use on threaded plastic fittings carrying hot or cold water, i.e., industrial and agricultural plastic water pipe systems, or drainage systems.

**P/N Package Size**  
1537780 16 oz. brush-top can

**WHEN SHOULD A LOCTITE® PRIMER BE USED?**

LOCTITE® anaerobic thread sealants cure (1) in the absence of air, and (2) in the presence of metal ions. When assembling inactive metal parts – which are low in metal ions – use of a LOCTITE® Primer is strongly recommended to ensure proper performance.

HELPFUL HINTS

INACTIVE METALS (PRIMERS RECOMMENDED)		ACTIVE METALS (PRIMERS OPTIONAL)
PLATED PARTS	SILVER	IRON
ANODIZED ALUMINUM (ALODINE®, IRIDITE™)	GOLD	PLAIN STEEL
TITANIUM	ZINC	COPPER
STAINLESS STEEL	PURE	BRASS
GALVANIZED STEEL	ALUMINUM†	BRONZE
MAGNETITE STEEL	CADMIUM	MANGANESE
INCONEL™	MAGNESIUM	MONEL™
NICKEL	NATURAL OR CHEMICAL BLACK OXIDE	KOVAR™

Primers also help speed up cure rates. Fixture time can be reduced from several hours to minutes, allowing faster assembly and production throughput.

LOCTITE® primers are also recommended when assembling metal parts that are cold, have large gaps or deep threads.

**NOTE:** Using a primer will decrease ultimate bond strength.



**THREAD SEALING PREP STEPS**

- Clean parts with LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser before applying thread sealant.
- If the parts were in contact with aqueous washing solutions or cutting fluids, which leave a protective layer on the surface, wash with hot water before use.
- If the thread sealant will be applied below 40°F, pretreat parts with LOCTITE® SF 7649™ Primer.

HELPFUL HINTS

† Pure aluminum is an inactive metal. Alloys of aluminum containing copper are considered active metals.

# Thread Sealants



**LOCTITE® Liquid Anaerobic Thread Sealant Properties Chart**

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	TYPICAL USE	COLOR & APPEARANCE	VISCOSITY (cP)	TEMPERATURE RANGE	PRESSURE RESISTANCE (psi)	RECOMMENDED PRIMER	AGENCY APPROVALS	
<b>GENERAL-PURPOSE</b>	<b>561™</b>	37127	19 g stick	General-purpose, portable, overhead	White Paste	Semisolid	-65°F to 300°F	10,000	SF 7088™, SF 7649™ or SF 7471™	UL Classified for U.S., CFIA Listed, NSF/ANSI 61
	<b>565™</b>	56507 56531 56541 56571 56543 56566	6 ml tube 50 ml tube 250 ml tube 300 ml cartridge 1 liter bottle 10 liter pail	Controlled strength	White	300,000	-65°F to 300°F	10,000	SF 7088™, SF 7649™ or SF 7471™	CSA International, UL Classified for U.S., NSF/ANSI 61, CFIA Listed, ULC Classified for Canada
	<b>577™</b>	2068749 2068748	50 ml tube 250 ml tube	Medium strength, coarse threads	Yellow	24,000/80,000 Thixotropic	-65°F to 300°F	10,000	SF 7088™, SF 7649™	N/A
<b>HIGH TEMPERATURE</b>	<b>567™</b>	2087068 2087067 2087069 2087072 2087073	6 ml tube 50 ml tube 250 ml tube 350 ml brush-top container 1 liter bottle	For stainless steel and all other metal fittings	White	540,000	-65°F to 400°F	10,000	SF 7088™, SF 7649™ or SF 7471™	UL Classified for U.S., ABS, CFIA Listed, NSF/ANSI 61, ULC Classified for Canada
	<b>5770™</b>	1138284 1138281	50 ml tube 250 ml tube	High temperature	Off-White Paste	Paste	-65°F to 530°F	N/A	SF 7088™, SF 7649™	N/A
	<b>592™</b>	59214 59231 59241 59243	6 ml tube 50 ml tube 250 ml tube 1 liter bottle	Medium strength	White	350,000	-65°F to 400°F	10,000	SF 736™	CFIA Listed
<b>HYDRAULIC &amp; PNEUMATIC</b>	<b>545™</b>	54505 32429 54531 54541	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Pneumatic hydraulic sealant, no fillers	Purple	14,000	-65°F to 300°F	10,000	SF 7088™, SF 7649™ or SF 7471™	ABS, CFIA Listed
	<b>5452™</b>	1265769 1265770	50 ml tube 250 ml tube	Pneumatic hydraulic sealant, no fillers	Purple	29,000/200,000 Thixotropic	-65°F to 300°F	10,000	SF 7088™, SF 7649™	N/A
	<b>569™</b>	56931 56941	50 ml bottle 250 ml bottle	Original hydraulic sealant	Brown	400	-65°F to 300°F	10,000	SF 7088™, SF 7649™	CFIA Listed
<b>LOW HALOGEN</b>	<b>580™</b>	58031	50 ml tube	Low halogen, low sulfur, PTFE-free	White	600,000	-65°F to 300°F	10,000	N/A	N/A
	<b>5772™</b>	25524	50 ml bottle	Low halogen, low sulfur, medium strength, fast cure	Yellow	7,500	-65°F to 300°F	10,000	N/A	N/A
	<b>5802™</b>	1313319	50 ml tube	Low halogen, high purity, medium strength, high viscosity	Off-White	Paste	-65°F to 300°F	10,000	N/A	N/A
<b>CHEMICAL RESISTANCE</b>	<b>554™</b>	25882 55441	10 ml bottle 250 ml bottle	Refrigerant sealant, high strength	Red	2,500	-65°F to 300°F	10,000	SF 7088™, SF 7649™ or SF 7471™	CFIA Listed

ITEMS IN RED = Source's PICK or NEW

🌐 = Indicates Worldwide Availability

## LOCTITE® Liquid Non-Aerobic Thread Sealant Properties Chart

	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	TYPICAL USE	COLOR AND APPEARANCE	VISCOSITY (cP)	TEMPERATURE RANGE	PRESSURE RESISTANCE (psi)	RECOMMENDED PRIMER	AGENCY APPROVALS
SOLVENT-BASED	5113™	1527514	1 pint brush can	General-purpose, metal pipes, added lubricity	White Paste	50,000 to 60,000	-65°F to 300°F	5,000	N/A	CFIA Listed
	5117™	1534294	1 pint brush can	General-purpose, non-shredding, chemical resistant	Black Paste	35,000 to 45,000	-65°F to 400°F	5,000	N/A	N/A
	MR 5438™	1537780	16 oz. brush-top can	Plastic pipes, easy disassembly	White Paste	90,000 to 110,000	-65°F to 300°F	5,000	N/A	CFIA Listed
NON-CURING	55™	35082	5,900"	Metal and plastic compatible, allows post-adjustment	White Coated Cord	N/A	Up to 300°F	10,000	N/A	NSF-61
	THREAD SEAL TAPE	39904	1/2" x 520" x 0.003"	General-purpose, oxygen service compatible	White Tape	N/A	Up to 500°F	Pressure Rating for Pipe	N/A	N/A

## LOCTITE® Activator Properties Chart

	LOCTITE® PRODUCT	ITEM	PACKAGE TYPE & SIZE	COLOR	VISCOSITY (cP)	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
ACTIVATORS	SF 7088™ PRIMER	1069258	17 g stick	Teal	Semisolid	No solvent	30 days	None	Anaerobics	CFIA Listed
	SF 7090™ ACTIVATOR	19368 12695	1 fl. oz. bottle 1 liter bottle	Dark Blue	17.5	No solvent	1 hour	None	Anaerobics	N/A
	SF 7471™ PRIMER	19267 22477 19268	1.75 fl. oz. bottle 4.5 oz. net wt. aerosol can 1 gallon can	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, CFIA Listed
	SF 7649™ PRIMER	19269 21347 21348 19266	1.75 fl. oz. glass bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can	Clear/ Green	2	Acetone	30 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed

🌐 = Indicates Worldwide Availability










# Thread Sealant Equipment


## YOUR EQUIPMENT *Source*

For more details, see the *LOCTITE® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).









LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	PACKAGE TYPES & SIZES	CONSUMABLES – DISPENSE ACCESSORIES
<b>HANDHELD APPLICATORS</b>	<b>BOTTLE DISPENSING</b>						
	 <b>50 ML AND 250 ML HAND PUMPS</b>	98414 97001	Retaining Compounds, Threadlockers	50 ml bottle 250 ml bottle	Low to Medium	Manual	Dispense Tips and Accessories – Pages 174-175
<b>HANDHELD APPLICATORS</b>	<b>TUBE DISPENSING</b>						
	 <b>50 ML-F TUBE SQUEEZE DISPENSER</b>	1083845	Any 50 ml tube	50 ml tubes	Low to High	Manual	N/A








LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	CONSUMABLES – DISPENSE ACCESSORIES	
<b>CONTROLLERS &amp; RESERVOIRS</b>	<b>INTEGRATED RESERVOIR CONTROLLERS</b>								
		<b>INTEGRATED SEMIAUTOMATIC DISPENSER</b>	1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
			1390321	0 to 100 psi				Medium to High	
		<b>RESERVOIRS</b>							
		<b>BOND-A-MATIC® 3000 RESERVOIR</b>	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
			982726					No	
			982723	0 to 100 psi				Medium to High	
	982727		No						
		<b>SHOT MISER™ RESERVOIR</b>	98090	0 to 100 psi	Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 200 g squeeze tube	Low to High	No	
		<b>4 LITER GRAVITY FEED RESERVOIR</b>	982880	N/A	Retaining Compounds, Threadlockers	Direct Fill	Low to Medium	Yes	
<b>DISPENSE SYSTEMS</b>	<b>MULTI-FUNCTION CONTROLLER</b>								
		<b>LOCTITE® SPRAY VALVE CONTROLLER</b>	1406023	0 to 100 psi	Primers, Accelerators, Activators	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	No	Use with LOCTITE® Spray Valve, Item Number 98520

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
<b>DISPENSE SYSTEMS</b>	<b>PINCH TUBE APPLICATORS</b>							
		<b>DIAL-A-SEAL® APPLICATORS</b>	998400	N/A	Pipe Sealants	50 ml tube 250 ml tube 1 liter bottle	Medium to High	N/A

ITEMS IN RED = Source's PICK or NEW

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
DISPENSE SYSTEMS	<b>COMPLETE PRESSURE-TIME BOTTLE DISPENSE SYSTEM</b>							
		BOND-A-MATIC® 3000 DISPENSER 0-15 PSI	982719	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	N/A
	BOND-A-MATIC® 3000 DISPENSER 0-100 PSI	982722				Medium to High		

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	ACTUATION	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD VALVES	<b>GENERAL-PURPOSE APPLICATORS</b>									
		LV HAND-HELD APPLICATOR	97130	Pneumatic	Low	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Foot	Dispense Tips and Accessories – Pages 174-175
	<b>GENERAL-PURPOSE APPLICATORS</b>									
		MANUAL HAND-HELD APPLICATOR	97111	Manual	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175
		PNEUMATIC HAND-HELD APPLICATOR	97112	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Foot	
	PNEUMATIC HAND-HELD APPLICATOR	97116	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure/Acrylics, Retaining Compounds, Threadlockers	Yes	Finger		
<b>GENERAL-PURPOSE APPLICATORS</b>										
	VARI-DROP™ APPLICATORS	97131 97132	Pinch Tube	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Finger	Dispense Tips and Accessories – Pages 174-175	

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
VALVES & PUMPS	<b>HIGH PRECISION VALVES</b>									
		LOCTITE® SPRAY VALVE	98520	Spray Valve	Low	Spray	Primers, Accelerators, Activators	Yes	No	989268 – 0.014" Nozzle Kit 989269 – 0.028" Nozzle Kit
	<b>HIGH PRECISION VALVES</b>									
		STATIONARY APPLICATOR VALVE	97113 97114	High Precision	Low to Medium	Drop, Dot, Bead	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175
	<b>HIGH PERFORMANCE DIAPHRAGM VALVES</b>									
		LIGHT CURE DISPENSE VALVE	98009	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No	Dispense Tips and Accessories – Pages 174-175
		CYANOACRYLATE DISPENSE VALVE	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdot	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No	
	<b>GENERAL DUTY DIAPHRAGM VALVES</b>									
		DIAPHRAGM VALVE	97135 97136	General Duty Diaphragm	0 to 2,500 cP 2,500 to 5,000 cP	Drop, Dot, Bead	Light Cure/Acrylics, Instant Adhesives, Retaining Compounds, Threadlockers	No	No	Dispense Tips and Accessories – Pages 174-175
	<b>HIGH VISCOSITY FLUID AND PASTE VALVES</b>									
	POPPET VALVE	986300	High Viscosity Fluid and Paste	Medium to High	Drop, Bead	Anaerobic Gasketing, Retaining Compounds, Threadlockers	Yes	Yes	Dispense Tips and Accessories – Pages 174-175	
<b>POSITIVE DISPLACEMENT PUMP</b>										
	POSITIVE DISPLACEMENT PUMP	983330	Positive Displacement Pump	Low to Medium	Drop	Retaining Compounds, Threadlockers, Any single-component, non-moisture-curing, low- to medium-viscosity fluid (<100,000 cP)	Yes	No	Dispense Tips and Accessories – Pages 174-175	

For more Loctite® branded equipment, go to page 163. Can't find what you're looking for? Visit [www.equipment.loctite.com](http://www.equipment.loctite.com).

# Toolboxes & Specialty Kits



## Your Application

### EMERGENCY REPAIR

Replace or Repair O-Ring Seals

Repair Stripped Threads

Stop Pipe Leaks

Insulation and Sealing

## Solution

O-Ring Making Kit

PC 3967™

Pipe Repair Kit

SI 5075™

## Product Description

### LOCTITE® O-Ring Making Kit

Makes replacement, high performance O-rings in less than a minute. This compact kit contains four 3-foot lengths of common diameters of Buna N (nitrile) cord, LOCTITE® 404® Instant Adhesive, O-ring fixture, blade, a waterproofing solution, and a cleanup solution. *Cut and splice tool and standard size cord stock are available.*

#### P/N      Package Size

00112      See chart on page 150 for kit contents - Standard

### LOCTITE® PC 3967™ Stripped Thread Repair Kit

Permanently repairs stripped threads and fasteners in five minutes (up to SAE Grade 5 English and 8.8 metric). Allows up to 1,538 in.-lb. torque (on 1 in. bolt) and 300°F (149°C). Resists most shop fluids.

#### P/N      Package Size

28654      12.9 ml kit

### LOCTITE® Pipe Repair Kit

Urethane-impregnated fiberglass tape, activated by water, for reliable, temporary repairs of metal, plastic and composite pipes. Includes LOCTITE® EA 3463™ epoxy stick, urethane-impregnated fiberglass tape and gloves. Cures in 30 minutes.

#### P/N      Package Size

96321      2 in. x 6 ft. tape  
96322      4 in. x 12 ft. tape

### LOCTITE® SI 5075™ Insulating & Sealing Wrap

Non-sticky, self-fusing, multipurpose wrap. Insulates electrical, seals leaks, improves grip. Hundreds of uses: industrial, automotive and marine.

#### P/N      Package Size

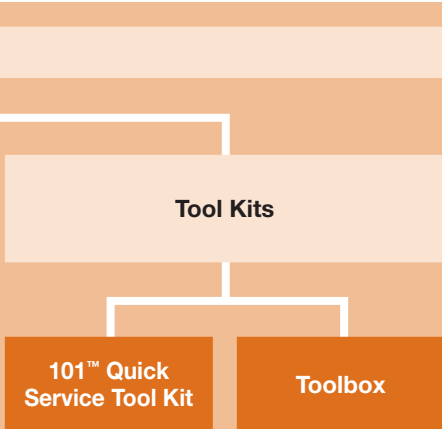
1212164      1 in. x 10 ft. Red  
1540599      1 in. x 10 ft. Black  
1496756      2 in. x 36 ft. Black

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*



# Toolboxes & Specialty Kits



### LOCTITE® 101™ Quick Service Tool Kit

The "original" LOCTITE® kit containing eight of the most common LOCTITE® products.

P/N	Package Size
00101	See chart for kit contents

### LOCTITE® Toolbox

Containing 18 of the latest and best LOCTITE® technologies to solve the most common mechanical failures, this kit has everything a professional needs to increase reliability at the base component level.

P/N	Package Size
38956	See chart for kit contents

## LOCTITE® TOOLBOX & SPECIALTY KIT ORDERING CHART

	LOCTITE® PRODUCT	ITEM NUMBER	KIT CONTENTS & CONTAINER	MAXIMUM TEMPERATURE RESISTANCE	AGENCY APPROVALS
SPECIALTY REPAIR	<b>LOCTITE® PC 3967™ STRIPPED THREAD REPAIR KIT</b>	28654	12.9 ml kit	300°F (149°C)	CFIA Listed
	<b>LOCTITE® O-RING MAKING KIT</b>	Standard: 00112	MR 6222™ Waterproofing Solution, 1 oz., item number 74126 SF 75326™ Cleanup Solvent, 1 oz., item number 75326 404® instant adhesive, 1/3 oz., item number 46551 [STANDARD] Cord: 3/32 in., 1/8 in., 3/16 in., 1/4 in. 8900591 O-Ring Stock, Buna N, 1/4 in. x 3 ft. 8900589 O-Ring Stock, Buna N, 1/8 in. x 3 ft. 8900588 O-Ring Stock, Buna N, 3/32 in. x 3 ft. 8900590 O-Ring Stock, Buna N, 3/16 in. x 3 ft.	N/A	CFIA Listed
	<b>PIPE REPAIR KIT</b>	96321 96322	2 in. x 6 ft. tape 4 in. x 12 ft. tape	250°F (121°C)	CFIA Listed
GENERAL MAINTENANCE	<b>101™ QUICK SERVICE TOOL KIT</b>	00101	243™ Threadlocker, Medium Strength, 10 ml 263™ Threadlocker, Primerless High Strength, 10 ml SF 7088™ Primer, 17 g 454™ Instant Adhesive Gel, 3 g 660™ Retaining Compound, 6 ml 565™ Thread Sealant, 50 ml SI 587™ Blue High Performance RTV Silicone, 70 ml 518™ Flange Sealant, 50 ml 249™ Blue Threadlocker Tape, 260 in. roll	N/A	N/A
	<b>LOCTITE® TOOLBOX</b>	38956	220™ Threadlocker, Low Strength/Wicking, 10 ml 222™ Threadlocker, Low Strength/Small Screw, 10 ml 243™ Threadlocker, Medium Strength, 10 ml 248™ Threadlocker, Medium Strength, 9 g 268™ Threadlocker, High Strength, 9 g 263™ Threadlocker, Primerless High Strength, 10 ml 404® Instant Adhesive, 1/3 oz. 518™ Flange Sealant, 50 ml 545™ Thread Sealant, Hydraulic/Pneumatic, 10 ml 561™ Pipe Sealant, 19 g 565™ Thread Sealant, 50 ml SI 587™ Blue High Performance RTV Silicone, 70 ml 641™ Retaining Compound, Low Strength, 10 ml 660™ Retaining Compound, 50 ml	N/A	N/A
			LB 8065™ C5-A® Copper Anti-Seize, 20 g stick	N/A	CFIA Listed
			SF 7088™ Primer, 17 g 249™ Threadlocker Tape, 260 in. roll 454™ Instant Adhesive Gel, 0.14 oz. net wt. bottle	N/A	N/A
	<b>SI 5075™ INSULATING &amp; SEALING WRAP</b>	1212164 1540599 1496756	1 in. x 10 ft. Red 1 in. x 10 ft. Black 2 in. x 36 ft. Black	500°F (260°C)	N/A

ITEMS IN RED = Source's PICK or NEW



# Medical Device Adhesive Solutions

151	MEDICAL DEVICE ADHESIVE SOLUTIONS
153	Medical Device Light Cure Acrylic Adhesives
156	Medical Device Adhesive Curing Equipment
157	Medical Device Cyanoacrylate Adhesives, Accelerators & Primers
160	Medical Device Adhesive Dispensing Equipment
161	Medical Device Epoxy & Urethane Adhesives
162	Medical Device Epoxy & Urethane Adhesive Dispensing Equipment

## WHY USE LOCTITE® ADHESIVES FOR MEDICAL DEVICE APPLICATIONS?

LOCTITE® adhesives have been specified by medical device manufacturers all over the world for more than three decades. We offer over 65 products for medical device assemblies requiring biocompatibility and hundreds of other products for applications not requiring toxicity testing.

Our medical device adhesives cover almost every adhesive chemistry conceivable, providing users with a wide range of choices and assembly solutions. No matter what the application, chances are we have the right adhesive for the job. Our products are available in viscosities ranging from water-thin liquids to thixotropic gels, and are compatible with common sterilization methods such as ethylene oxide, gamma radiation, electron beam, liquid sterilization and limited cycles of autoclave and peroxide plasma.

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call **1-800-LOCTITE (562-8483)**; within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

**STRAIGHT FROM** *The Source*

## TRADITIONAL METHODS VS. LOCTITE® MODERN SOLUTIONS

Advantages of LOCTITE® medical device adhesives over welding or mechanical assembly methods include:

- Join dissimilar and difficult-to-join substrates
- Distribute stresses evenly
- Fill large gaps
- Seal and bond
- Result in a neat appearance
- Easily automated

## KEY BENEFITS OF USING LOCTITE® ADHESIVES FOR MEDICAL DEVICE APPLICATIONS:

- Broadest range of medical device adhesive technologies (light cure, cyanoacrylate, epoxy, urethane, silicone)
- Adhesives meet comprehensive ISO 10993 biocompatibility requirements
- More than 30 years of medical industry experience and support
- A customized quality program tailored to the needs of the medical device industry
- Total solutions support with adhesives and equipment (dispensing, curing and process monitoring)
- Comprehensive training programs





# Medical Device Adhesive Solutions

PERFORMANCE CONSIDERATIONS	ADHESIVE CATEGORY				
	CYANOACRYLATES	EPOXIES	LIGHT CURE ADHESIVES	SILICONES	URETHANES
<b>BENEFITS</b>	Wide range of bonding applications	Wide range of formulations	Rapid cure/adhesion to plastics	Excellent temperature resistance	Excellent toughness/flexibility
<b>CONSIDERATIONS</b>	Low solvent resistance	Mixing or heat required	Light cure system required	Low cohesive strength	Sensitive to moisture
<b>TEMPERATURE RESISTANCE</b>					
<b>TYPICAL FOR THE CATEGORY</b>	-65°F to 180°F (-54°C to 82°C)	-65°F to 300°F (-54°C to 149°C)	-65°F to 300°F (-54°C to 149°C)	-65°F to 350°F (-54°C to 177°C)	-65°F to 250°F (-54°C to 121°C)
<b>HIGHEST RATED PRODUCT</b>	250°F (121°C)	300°F (149°C)	300°F (149°C)	200°F (93°C)	250°F (121°C)
<b>ENVIRONMENTAL RESISTANCE</b>					
<b>POLAR SOLVENTS</b> <i>(EX.: H<sub>2</sub>O, ETHYLENE GLYCOL, ISOPROPYL ALCOHOL, ACETONE)</i>	Poor <sup>1</sup>	Very Good	Good	Good	Good
<b>NONPOLAR SOLVENTS</b> <i>(EX.: MOTOR OIL, TOLUENE, GASOLINE, ATF)</i>	Good	Excellent	Very Good	Poor to Fair	Good
<b>ADHESION TO SUBSTRATES</b>					
<b>METALS</b>	Very Good	Excellent	Good	Good	Good
<b>PLASTICS<sup>2</sup></b>	Excellent	Fair	Excellent	Good	Very Good
<b>GLASS</b>	Poor	Excellent	Excellent	Good	Good
<b>RUBBER</b>	Very Good	Fair	Fair	Fair	Good
<b>OVERLAPPING SHEAR STRENGTH</b>	High	High	High	Low	Medium
<b>PEEL STRENGTH</b>	Low <sup>3</sup>	Medium	Medium	Medium	Medium
<b>TENSILE STRENGTH</b>	High	High	High	Low	Medium
<b>ELONGATION/FLEXIBILITY</b>	Low	Low	Medium	Very High	High
<b>HARDNESS</b>	Rigid	Rigid	Semirigid	Soft	Soft
PERFORMANCE CONSIDERATIONS	ADHESIVE CATEGORY				
	CYANOACRYLATES	EPOXIES	LIGHT CURE ADHESIVES	SILICONES	URETHANES
<b>NUMBER OF COMPONENTS</b>	1	1 and 2	1	1	2
<b>CURE TEMPERATURES</b>	Room Temperature	Heat or Room Temperature	UV/Visible	UV/Visible	Room Temperature
<b>FIXTURE TIME</b>					
<b>AVERAGE</b>	60 seconds	5 hours	30 seconds	10 minutes	5 hours
<b>FASTEST</b>	<5 seconds	15 to 20 minutes	5 seconds	60 seconds	5 hours
<b>FULL CURE TIME</b>	24 hours	30 minutes to 24 hours	30 to 60 seconds	24 hours	24 hours
<b>GAP FILL</b>					
<b>IDEAL (IN INCHES)</b>	0.001 to 0.003	0.004 to 0.006	0.002 to 0.010	0.004 to 0.006	0.004 to 0.006
<b>MAXIMUM (IN INCHES)</b>	0.010	0.5	0.25	0.25	0.5
<b>DISPENSING/MIXING EQUIPMENT REQUIRED</b>	No	Yes (2 parts)	No	No	Yes
<b>LIGHT CURE VERSIONS AVAILABLE?</b>	Yes	No	Yes	Yes	No

<sup>1</sup> Cyanoacrylates have very good moisture resistance on plastics.

<sup>2</sup> Uncured liquid adhesives may cause stress cracking of certain thermoplastics, e.g., polycarbonate, acrylic and polysulfone. Special products and process techniques are available. Consult the LOCTITE® Design Guide to Bonding Plastics (LT-2197) or contact 1-800-LOCTITE (562-8483) for more information.

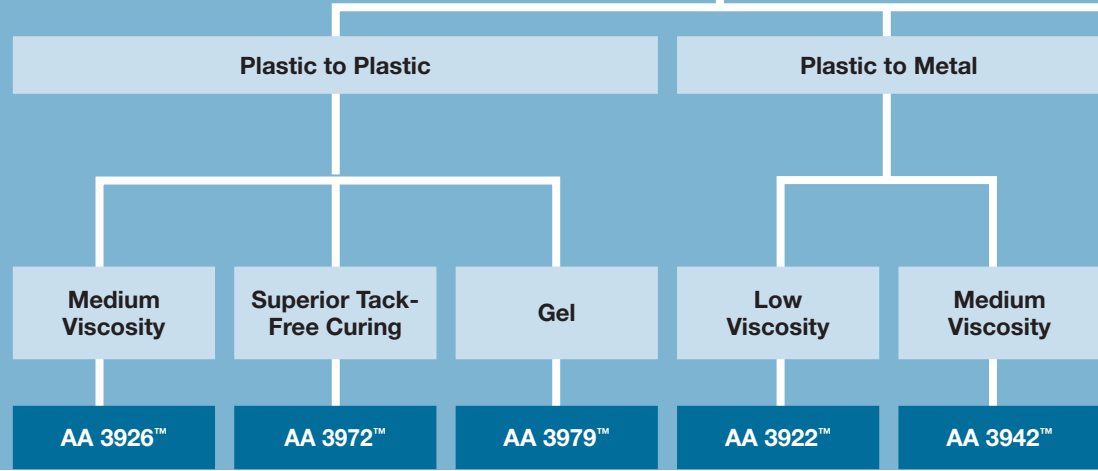
<sup>3</sup> Exception: Toughened cyanoacrylates have high peel strength.

# Medical Device Light Cure Acrylic Adhesives



## Your Application

WHAT TYPE OF TRANSPARENT SUBSTRATE ARE YOU BONDING?



## Solution

	AA 3926™	AA 3972™	AA 3979™	AA 3922™	AA 3942™
<b>Chemistry</b>	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
<b>Color</b>	Transparent to Hazy Fluorescent	Transparent to Hazy Fluorescent	Translucent/Straw/Fluorescent	Transparent to Hazy Fluorescent	Transparent to Hazy Fluorescent
<b>Viscosity (cP)</b>	5,500	4,650	56,500	300	1,250
<b>Cure Type</b>	UV/Visible	UV/Visible	UV/Visible	UV/Visible	UV/Visible
<b>ISO 10993 Compliant</b>	Yes	Yes	Yes	Yes	Yes

## Product Description

### LOCTITE® AA 3926™ Light Cure Adhesive

Fluorescing, UV/visible adhesive offering superior sterilization resistance.

P/N	Package Size
36492	25 ml syringe
36493	1 liter bottle

### LOCTITE® AA 3972™ Light Cure Adhesive

Rapid curing, UV/visible, fluorescing adhesive with superior tack-free curing.

P/N	Package Size
36294	25 ml syringe
36295	1 liter bottle

### LOCTITE® AA 3979™ Light Cure Adhesive

A rapid curing, UV/visible non-sag gel, which fluoresces red.

P/N	Package Size
1402562	25 ml syringe
1402563	300 ml cartridge

### LOCTITE® AA 3922™ Light Cure Adhesive

Fluorescing, UV/visible adhesive offering superior sterilization resistance. Ideal for bonding a wide variety of plastic and metal components where environmental resistance is required.

P/N	Package Size
32083	25 ml syringe
32047*	1 liter bottle

### LOCTITE® AA 3942™ Light Cure Adhesive

Fluorescing, UV/visible acrylic adhesive. Ideal for applications where high strength on a variety of substrates and rapid surface cure are required.

P/N	Package Size
36483	25 ml syringe
36481	1 liter bottle

\* Made-to-order item.



Flexible Substrates				Translucent Colored Substrates	
Thermoplastics	Plasticized PVC	Silicone		Medium Viscosity	High Viscosity
AA 3974™	AA 3341™	Light Cure Only	Light/Moisture Cure	AA 3555™	AA 3556™
Acrylic	Acrylic	Silicone	Silicone	Acrylic	Acrylic
Transparent to Hazy Fluorescent	Transparent to Hazy Fluorescent	Light Yellow/Transparent	Translucent/White	Clear/Light Yellow/Fluorescent	Clear/Light Yellow/Fluorescent
2,400	525	2,200	25,000	1,000	5,000
UV/Visible	UV/Visible	UV/Visible	UV/Visible, Humidity	Visible	Visible
Yes	Yes	Yes	Yes	Yes	Yes

**LOCTITE® AA 3974™  
Light Cure Adhesive**

A highly resilient, extremely flexible, thermal-cycling resistant UV/visible adhesive that bonds plastic, metal and glass.

P/N	Package Size
1135733	25 ml syringe
1135732	1 liter bottle

**LOCTITE® AA 3341™  
Light Cure Adhesive**

A rapid cure, UV/visible, fluorescing adhesive that bonds highly plasticized PVC and other difficult-to-bond substrates.

P/N	Package Size
23792	25 ml syringe
23440	1 liter bottle

**LOCTITE® SI 5056™  
Light Cure Adhesive**

A medium viscosity UV or visible light curing, noncorrosive silicone with very high bond strength. Ideal for high speed adhesion and sealing applications.

P/N	Package Size
1214249	25 ml syringe
1214250	1 liter bottle

**LOCTITE® SI 5240™  
Light Cure Adhesive**

A self-leveling, UV or visible light silicone that also features a secondary moisture cure. Makes transparent, white-tinted seals or bonds.

P/N	Package Size
1010341	25 ml syringe
1010320	300 ml cartridge

**LOCTITE® AA 3555™  
Light Cure Adhesive**

A medium viscosity adhesive that cures in the visible spectrum offering properties and performance similar to most UV/visible adhesives. Visible light adhesives cure with unique systems that minimize venting or specialized safety equipment. Benefits include lower initial investment and reduced maintenance costs.

P/N	Package Size
1072221	25 ml syringe
1072200	1 liter bottle

**LOCTITE® AA 3556™  
Light Cure Adhesive**

A high viscosity adhesive that cures in the visible spectrum offering properties and performance similar to most UV/visible adhesives. Visible light adhesives cure with unique systems that minimize venting or specialized safety equipment. Benefits include lower initial investment and reduced maintenance costs.

P/N	Package Size
1072223	25 ml syringe
1072222	1 liter bottle

# Medical Device Light Cure Acrylic Adhesives

## LOCTITE® Medical Device Light Cure Adhesive Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	APPEARANCE/CLARITY/COLOR	CURE TYPE	KEY SUBSTRATES	VISCOSITY (cP) BROOKFIELD (25°C)	TEMPERATURE RANGE	ISO 10993 COMPLIANT		
ACRYLIC VISIBLE WITH FLUORESCENCE	AA 3554™	1072199	25 ml syringe	Clear/Light Yellow/Fluorescent	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	300	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3555™	1072221 1072200	25 ml syringe 1 liter bottle	Clear /Light Yellow/Fluorescent	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	1,000	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3556™	1072223 1072222	25 ml syringe 1 liter bottle	Clear /Light Yellow/Fluorescent	Visible	Polycarbonate, thermoplastic, polyvinyl chloride	5,000	-65°F to 300°F (-54°C to 149°C)	●	
ACRYLIC UV/VISIBLE WITH FLUORESCENCE	AA 3341™	23792 23440	25 ml syringe 1 liter bottle	Clear/Straw/Fluorescent	Ultraviolet, visible	Thermoplastics, polyvinyl chloride	525	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3921™	36484 36485 36487*	25 ml syringe 1 liter bottle 3.96 gallon pail	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	150	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3922™	32083 32047*	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	300	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3926™	36492 36493	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	5,500	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3933™	32040*	1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate	3,250	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3936™	32304 32037*	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate	11,000	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3942™	36483 36481	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, thermoset plastic	1,250	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3943™	36480 36478	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, thermoset plastic	6,750	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3944™	38210 38212	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	5,000	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3971™	36792 36805	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Metal, thermoplastic, polyvinyl chloride, polyurethane	320	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3972™	36294 36295	25 ml syringe 1 liter bottle	Transparent to Hazy/Fluorescent	Ultraviolet, visible	Metal, thermoplastic, polyvinyl chloride, polyurethane	4,650	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3974™	1135733 1135732	25 ml syringe 1 liter bottle	Translucent/Colorless/Fluorescent	Ultraviolet, visible	Thermoplastic, thermoset plastic, glass, metal, ceramic	2,400	-65°F to 300°F (-54°C to 149°C)	●	
	AA 3979™	1402562 1402563	25 ml syringe 300 ml cartridge	Translucent/Straw/Fluorescent	Ultraviolet, visible	Polycarbonate, polyvinyl chloride	56,500	-65°F to 300°F (-54°C to 149°C)	●	
	ACRYLIC UV/VISIBLE WITHOUT FLUORESCENCE	AA 3201™	19727 19728	25 ml syringe 1 liter bottle	Clear/Pale Straw	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate	3,750	-65°F to 300°F (-54°C to 149°C)	●
		AA 3211™	19730 19731*	25 ml syringe 1 liter bottle	Clear/Pale Straw	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate	11,250	-65°F to 300°F (-54°C to 149°C)	●
AA 3301™		19733 19734	25 ml syringe 1 liter bottle	Clear/Pale Straw	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	150	-65°F to 300°F (-54°C to 149°C)	●	
AA 3311™		19736 19737	25 ml syringe 1 liter bottle	Clear/Pale Straw	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	300	-65°F to 300°F (-54°C to 149°C)	●	
AA 3321™		19739 19740	25 ml syringe 1 liter bottle	Clear/Pale Straw	Ultraviolet, visible	Glass, metal, thermoplastic, polycarbonate, polyvinyl chloride	5,500	-65°F to 300°F (-54°C to 149°C)	●	
SILICONE ADHESIVE/ SEALANTS	SI 5240™	1010341 1010320 1010343*	25 ml syringe 300 ml cartridge 40 lb. pail	Translucent/White	UV/visible, humidity	Silicone, metal, glass, plastic	25,000	-65°F to 200°F (-54°C to 93°C)	●	
	SI 5055™	1212167 1214246 1214247*	25 ml syringe 1 liter bottle 15 liter pail	Light Yellow/Transparent	Ultraviolet, visible	Silicone, metal, glass, plastic	525	-65°F to 200°F (-54°C to 93°C)	●	
	SI 5056™	1214249 1214250 1214248*	25 ml syringe 1 liter bottle 15 liter pail	Light Yellow/Transparent	Ultraviolet, visible	Silicone, metal, glass, plastic	2,200	-65°F to 200°F (-54°C to 93°C)	●	

ITEMS IN RED = Source's PICK or NEW

● = Indicates Worldwide Availability

\* Made-to-order item.

### WEAR EYE PROTECTION




For proper eye protection, use LOCTITE® UV and visible light safety glasses.



Item No. 98452

# Medical Device Adhesive Curing Equipment

LOCTITE® PRODUCT		ITEM NUMBER	WAVELENGTH	OPTIONS/ACCESSORIES	
SPOT/WAND SYSTEMS	<b>LED CURING DEVICES</b>				
		<b>CUREJET™ 375 LED</b>	1369539	LED – 375 nm	Used with 1364033 or 1180632
		<b>CUREJET™ 405 LED</b>	1369538	LED - 405 nm	Used with 1364033 or 1180632
		<b>CUREJET™ INDIGO® LED</b>	1369537	LED - Proprietary Indigo Wavelength	Used with 1364033 or 1180632
		<b>LED CONTROLLER</b>	1364033	N/A	Used with all CUREJET™ LEDs
		<b>CUREJET™ QUAD CONTROLLER</b>	1180632	N/A	Used with all CUREJET™ LEDs
		<b>7700 LED LIGHT SOURCE</b>	1427231	LED - 405 nm	OPTIONAL: Foot Switch – 98440; Holder – 98522; Radiometer Dosimeter for Visible LED and UVW Light – 1265282; Dosimeter Adapter – 1403405
		<b>7700-HD LED LIGHT SOURCE</b>	1427232		
		<b>7703 LED LIGHT SOURCE</b>	806038	LED - Proprietary Indigo Wavelength	ONE OF THE FOLLOWING IS REQUIRED: Timer – 960356; PLC Cable – 8900550; Foot Switch – 97201; Pistol Grip Timer – 1003327
		<b>7703-HD LED LIGHT SOURCE</b>	883979		
		<b>EQ CL10 SINGLE LED CONTROLLER</b>	1514636	N/A	ONE OF THE FOLLOWING IS REQUIRED – sold separately: 6 mm Spot Dia. 365 nm. 2.7 meter cable – 1538499 6 mm Spot Dia. 405 nm. 2.7 meter cable – 1746633
		<b>EQ CL10 QUAD LED CONTROLLER</b>	1514634	N/A	
	<b>EQ CL15 UV WAND SYSTEM</b>	1661548	N/A	REQUIRES Light Guide 983677, 983684 or 951681 – sold separately	
FLOOD/LINE SYSTEMS		<b>LED FLOOD CONTROLLER</b>	1359255	N/A	Used with 1167582, 1167589 or 1167593
		<b>LED FLOOD CURE, 375</b>	1167582	LED – 375 nm	Used with 1359255 in conjunction with cable 13333333
		<b>LED FLOOD CURE, INDIGO®</b>	1167589	LED – Indigo Wavelength	Used with 1359255 in conjunction with cable 13333333
		<b>LED FLOOD CURE, 405</b>	1167593	LED – 405 nm	Used with 1359255 in conjunction with cable 13333333
	<b>LED SINGLE LINE ARRAY CONTROLLER</b>	1447728	N/A	Requires Line Array cable (1483245) and one of the following – sold separately LED Line Array 405 nm Light Source – 1449336 LED Line Array 365 nm Light Source – 1449337	

LOCTITE® PRODUCT		ITEM NUMBER	WAVELENGTH	OPTIONS/ACCESSORIES	
LIGHT METERS	<b>LIGHT METERS</b>				
		<b>RADIOMETER DOSIMETER FOR VISIBLE LED AND UVV LIGHT</b>	1265282	350 to 500 nm	Calibration services are available
		<b>RADIOMETER DOSIMETER FOR UV LED AND UV A/B LIGHT</b>	1390323	320 to 400 nm	Calibration services are available
	<b>7020 UV SPOT RADIOMETER</b>	1406024	280 to 400 nm	Calibration services are available	

**ITEMS IN RED = Source's PICK or NEW**

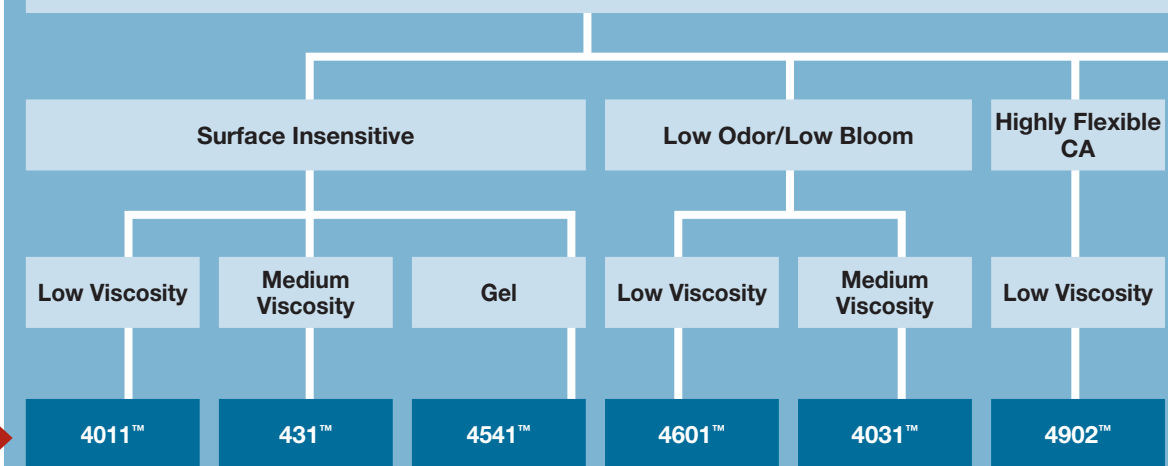
**Your Source for Motion Control Robot Dispense Systems. See page 169.**

# Medical Device Cyanoacrylate Adhesives, Accelerators & Primers



## Your Application

WHAT IS THE PRIMARY INSTANT ADHESIVE APPLICATION REQUIREMENT?



## Solution

	4011™	431™	4541™	4601™	4031™	4902™
<b>Chemistry</b>	Cyanoacrylate	Cyanoacrylate	Cyanoacrylate	Cyanoacrylate	Cyanoacrylate	Cyanoacrylate
<b>Color</b>	Clear	Clear	Clear	Clear	Clear	Clear
<b>Viscosity (cP)</b>	100	1,000	Gel	45	1,375	200
<b>ISO 10993 Compliant</b>	Yes	Yes	Yes	Yes	Yes	Yes

## Product Description

### LOCTITE® 4011™ Instant Adhesive

A low viscosity, instant adhesive ideally suited for dry environments, as well as for bonding acidic surfaces.

P/N	Package Size
18680	20 g bottle
18681	1 lb. bottle

### LOCTITE® 431™ Instant Adhesive

A medium viscosity, instant adhesive ideally suited for dry environments, as well as for bonding acidic surfaces.

P/N	Package Size
41254	3 g tube
41255	20 g bottle
41256	1 lb. bottle

### LOCTITE® 4541™ Instant Adhesive

A gel viscosity adhesive particularly suited for bonding porous or absorbent materials. Formulated for faster cure speeds on dry or acidic surfaces and substrates.

P/N	Package Size
21920	10 g syringe
18690	20 g tube
18691	200 g tube

### LOCTITE® 4601™ Instant Adhesive

A low viscosity instant adhesive offering lower odor and lower blooming for improved cosmetic appearance.

P/N	Package Size
18692	20 g bottle
18693	1 lb. bottle

### LOCTITE® 4031™ Instant Adhesive

A medium viscosity instant adhesive offering lower odor and lower blooming for improved cosmetic appearance.

P/N	Package Size
18682	20 g bottle
18683	1 lb. bottle

### LOCTITE® 4902™ Instant Adhesive

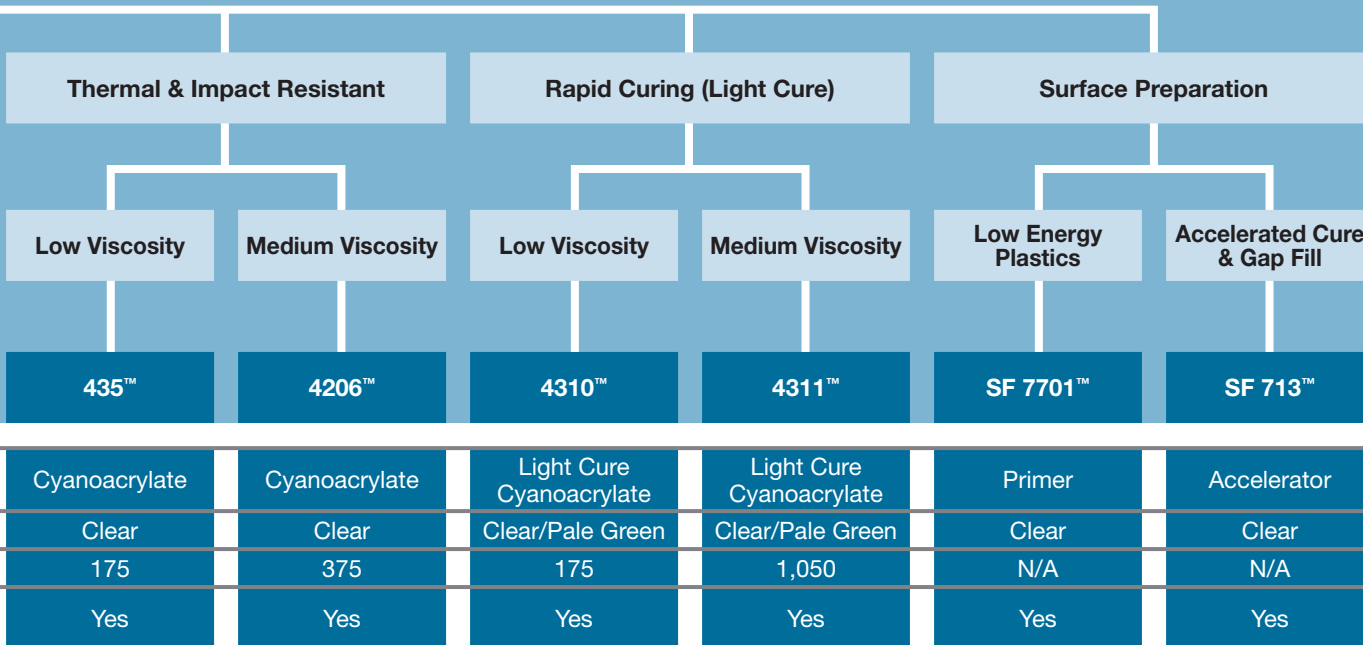
Highly flexible CA with elongations over 100% designed for high flexing bond lines.

P/N	Package Size
1875841	20 g bottle
1875842	1 lb. bottle

### ADDITIONAL PRODUCT AVAILABLE

4903™	Increased modulus
-------	-------------------

\* Made-to-order item.



**LOCTITE® 435™ Instant Adhesive**

The first true clear, surface insensitive, elastomer-modified instant adhesive. Faster fixture times over traditional toughened adhesives with exceptional bond and peel strength on metals, plastics and rubbers.

**CFIA Listed**

P/N	Package Size
40994	20 g bottle
40995	1 lb. bottle

**LOCTITE® 4206™ Instant Adhesive**

A clear, toughened thermally resistant adhesive with excellent heat aging and hot strength properties up to 250°F (121°C).

P/N	Package Size
28628	20 g tube

**LOCTITE® 4310™ Light Cure Adhesive**

A low viscosity toughened fluorescent adhesive that achieves tack-free cures in less than 5 seconds. Surface versatile with shadow cure capability.

P/N	Package Size
1401792	1 oz. bottle
1401790	1 lb. bottle

**LOCTITE® 4311™ Light Cure Adhesive**

A medium viscosity toughened fluorescent adhesive that achieves tack-free cures in less than 5 seconds. Surface versatile with shadow cure capability.

P/N	Package Size
1401791	1 oz. bottle
1401789	1 lb. bottle

**LOCTITE® SF 7701™ Primer**

An adhesion promoter formulated for use with polyolefins and other low surface energy plastics. Fast dry time and long on-part life.

P/N	Package Size
19886	1.75 fl. oz. bottle
19887	16 fl. oz. can

**LOCTITE® SF 713™ Accelerator**

An accelerator for use with instant adhesive to speed fixture and enhance gap filling. Fast dry time and 10 minute on-part life.

P/N	Package Size
19889	1.75 fl. oz. bottle

# LOCTITE® Medical Device Cyanoacrylate Adhesive, Accelerator & Primer Properties Chart

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	APPEARANCE/ CLARITY/COLOR	CURE TYPE	KEY SUBSTRATES	VISCOSITY (cP) BROOKFIELD (25°C)	TEMPERATURE RANGE	ISO 10993 COMPLIANT	
<b>431™ (SI)</b>	41254 41255 41256	3 g tube 20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	1,000	-65°F to 180°F (-54°C to 82°C)	●	
<b>435™ (T)</b>	40994 40995	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	175	-65°F to 250°F (-54°C to 121°C)	●	
<b>4011™ (SI)</b>	18680 18681	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	100	-65°F to 180°F (-54°C to 82°C)	●	
<b>4013™ (GP)</b>	20268 18013	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	600	-65°F to 180°F (-54°C to 82°C)	●	
<b>4014™ (GP)</b>	20269 18014	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	3	-65°F to 220°F (-54°C to 104°C)	●	
<b>4031™ (LO)</b>	18682 18683	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	1,375	-65°F to 160°F (-54°C to 71°C)	●	
<b>4061™ (SI)</b>	18686 18687	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	20	-65°F to 180°F (-54°C to 82°C)	●	
<b>4081™ (LO)</b>	18688	20 g bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	7	-65°F to 160°F (-54°C to 71°C)	●	
<b>4161™ (GP)</b>	19743 19744	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	1,575	-65°F to 180°F (-54°C to 82°C)	●	
<b>4206™ (TR)</b>	28628	20 g tube	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	375	-65°F to 250°F (-54°C to 121°C)	●	
<b>4541™ (SI)</b>	18690 18691 21920	20 g tube 200 g tube 10 g syringe	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber, wood, paper, leather, fabric	Gel	-65°F to 180°F (-54°C to 82°C)	●	
<b>4601™ (LO)</b>	18692 18693	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal	45	-65°F to 160°F (-54°C to 71°C)	●	
<b>4851™ (FL)</b>	37732 37733	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	375	-65°F to 125°F (-54°C to 52°C)	●	
<b>4861™ (FL)</b>	37708 37711	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	4,250	-65°F to 125°F (-54°C to 52°C)	●	
<b>4981™ (TR)</b>	18694 18695	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	500	-65°F to 220°F (-54°C to 104°C)	●	
<b>4902™</b>	1875841 1875842	20 g bottle 1 lb. bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	1,745	-65°F to 180°F (-54°C to 82°C)	●	
<b>4903™</b>	1875847	20 g bottle	Clear	Humidity	Thermoplastic, thermoset plastic, metal, elastomer, including rubber	1,670	-65°F to 180°F (-54°C to 82°C)	●	
<b>LIGHT CURE CYANOACRYLATES</b>	<b>4306™</b>	37439 37442	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, humidity	Thermoplastic, polycarbonate, elastomer, metal	20	-65°F to 180°F (-54°C to 82°C)	●
	<b>4310™</b>	1401792 1401790	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, humidity	Thermoplastic, polycarbonate, elastomer, metal	175	-65°F to 200°F (-54°C to 93°C)	●
	<b>4311™</b>	1401791 1401789	1 oz. bottle 1 lb. bottle	Clear/ Pale Green	Ultraviolet, visible, humidity	Thermoplastic, polycarbonate, elastomer, metal	1,050	-65°F to 200°F (-54°C to 93°C)	●
<b>ACCELERATORS &amp; PRIMERS</b>	<b>SF 713™</b>	19889	1.75 fl. oz. bottle	Clear	N/A	Isopropanol-based accelerator for cyanoacrylates	1	N/A	●
	<b>SF 7451™</b>	19890	1.75 fl. oz. bottle	Clear	N/A	Acetone-based accelerator for cyanoacrylates	1	N/A	●
	<b>SF 7701™</b>	19886 19887	1.75 fl. oz. bottle 16 fl. oz. can	Clear	N/A	Heptane-based adhesion promoter for low energy surface plastics	1	N/A	●

ITEMS IN RED = Source's PICK or NEW

(SI) = Surface Insensitive  
(GP) = General-Purpose

(LO) = Low Odor/Low Bloom  
(FL) = Flexible






(TR) = Thermally Resistant  
(T) = Toughened




\* Made-to-order item.










# Medical Device Adhesive Dispensing Equipment

ITEMS IN RED = Source's PICK or NEW

LOCTITE® PRODUCT		ITEM NUMBER	TYPE	VISCOSITY RANGE	DISPENSE PATTERNS	USED TO DISPENSE	STROKE ADJUSTMENT	SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
VALVES	<b>HIGH PRECISION VALVES</b>									
		MICRO NEEDLE VALVE	98084	High Precision	Low to Medium	Drop, Dot, Bead, Microdot	Light Cure/Acrylics	Yes	No	Dispense Tips and Accessories – Pages 174-175
		EQ VA30 JET VALVE	1850212	Non-Contact High Precision Jetting Valve	Low to High	Drop, Dot, Bead, Microdot	Light Cure Adhesives	No	No	1872279 – 75µm Nozzle Plate 1871880 – 125µm Nozzle Plate or 1871874 – 200µm Nozzle Plate
	<b>HIGH PERFORMANCE DIAPHRAGM VALVES</b>									
		VA10 MICRO DIAPHRAGM VALVE	1611449	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdot	Instant Adhesives	Yes	No	Dispense Tips and Accessories – Pages 174-175
	CYANOACRYLATE DISPENSE VALVE	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead,	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No		
	LIGHT CURE DISPENSE VALVE	98009				Light Cure Adhesives	Yes	No		

LOCTITE® PRODUCT		ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	CONSUMABLES – DISPENSE ACCESSORIES	
HANDHELD APPLICATORS	<b>BOTTLE DISPENSING</b>						
		CA VOLUMETRIC HAND PUMP	1506477	Cyanoacrylates	20 g or 1 fl. oz. bottle	0.009 to 0.002 g	Dispense Tips and Accessories – Pages 174-175
	<b>SYRINGE DISPENSING</b>						
	10 ML GEL CA SYRINGE DISPENSER	1233800	Any fluid in a 10 ml syringe	10 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175	
	30 ML MANUAL SYRINGE APPLICATOR	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	Dispense Tips and Accessories – Pages 174-175	

LOCTITE® PRODUCT		ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES	
DISPENSE SYSTEMS	<b>VOLUMETRIC BOTTLE DISPENSING</b>								
		BENCHTOP PERISTALTIC DISPENSER	98548	Dot, Drop, Bead	Instant Adhesives, Light Cure/Acrylics	Any Bottle	0 to 5,000 cP	Programmable	Dispense Tips and Accessories – Pages 174-175
	<b>SYRINGE DISPENSING SYSTEMS</b>								
		PRECISION SYRINGE DISPENSING SYSTEM	97006*	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics	3 ml syringe 5 ml syringe 10 ml syringe 30 ml syringe 55 ml syringe	Low to Paste	Yes	Dispense Tips and Accessories – Pages 174-175
		DIGITAL SYRINGE DISPENSING SYSTEM	883976						
	SD10 DIGITAL SYRINGE DISPENSER	1514629							
<b>TUBE BONDING</b>									
	LIGHT CURE ACRYLIC ADHESIVE DISPENSING SYSTEM	98445	Beads on tubing OD	Light Cure/Acrylics	2.0 mm to 6.0 mm ID tubing	Low	N/A	Use with bushings – Items: 989038, 989039, 989040, 989041 & 989042	

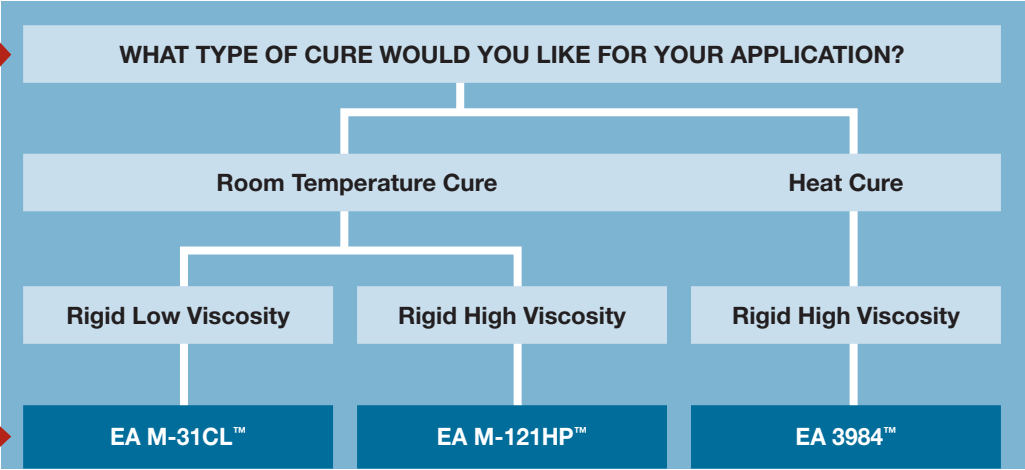
LOCTITE® PRODUCT		ITEM NUMBER	PRESSURE REGULATION	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	LOW LEVEL SENSING	FOR MORE INFORMATION	
CONTROLLERS & RESERVOIRS	<b>INTEGRATED RESERVOIR CONTROLLERS</b>								
		INTEGRATED SEMIAUTOMATIC DISPENSER	1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure/Acrylics	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes	Dispense Tips and Accessories – Pages 174-175
			1390321	0 to 100 psi				Medium to High	
	EQ VA30 JET CONTROLLER	1850211	0 to 100 psi	Light Cure Adhesives	10, 30, 55 ml Syringes	Low to High	No	Use with LOCTITE® EQ VA30 Jet Valve – 1850212	

\* Syringe Airline Adapter sold separately. Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) for all available accessories.

# Medical Device Epoxy & Urethane Adhesives



## Your Application



## Solution

<b>Chemistry</b>	Epoxy	Epoxy	Epoxy
<b>Color</b>	Ultra-Clear	Amber	Light Grey
<b>Viscosity (cP)</b>	6,000	11,000	25,000
<b>Mix Ratio</b>	1:1	1:1	1 Part
<b>Cure Type</b>	Room Temperature	Room Temperature	Heat Cure

## Product Description

### LOCTITE® EA M-31CL™ Adhesive

A low viscosity epoxy that bonds glass, ceramic, metal and many rigid plastics. Ideal for applications where optical clarity and excellent structural and mechanical properties are required.

<b>P/N</b>	<b>Package Size</b>
30673	50 ml dual cartridge
30674*	200 ml dual cartridge

### LOCTITE® EA M-121HP™ Adhesive

A high viscosity, non-sag epoxy for applications that require high impact resistance and high peel strength. Bonds dissimilar materials including aluminum, steel and other metals, as well as a variety of plastics and ceramics.

<b>P/N</b>	<b>Package Size</b>
30680	50 ml dual cartridge

### LOCTITE® EA 3984™ Adhesive

Highly fluorescent, one-part, heat cure epoxy adhesive offering superior physical, environmental and performance properties.

<b>P/N</b>	<b>Package Size</b>
36768	30 ml syringe

\* Made-to-order item.





## LOCTITE® Medical Device Epoxy & Urethane Adhesive Properties Chart


	LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	APPEARANCE/ CLARITY/COLOR	CURE TYPE	KEY SUBSTRATES	VISCOSITY (cP) BROOKFIELD (25°C)	TEMPERATURE RANGE	ISO 10993 COMPLIANT
EPOXIES	<b>EA 3984™</b>	36768	30 ml syringe	Light Grey	Heat cure	Thermoset plastic, metal, glass, ceramic	25,000	-65°F to 300°F (-54°C to 149°C)	●
	EA M-21HP™	30671	50 ml dual cartridge	Off-White	Room temperature	Thermoplastic, thermoset plastic, elastomer, metal, glass, ceramic	37,000	-65°F to 300°F (-54°C to 149°C)	●
	<b>EA M-31CL™</b>	30673 30674*	50 ml dual cartridge 200 ml dual cartridge	Ultra-Clear	Room temperature	Thermoplastic, thermoset plastic, polycarbonate, metal, glass, ceramic	6,000	-65°F to 300°F (-54°C to 149°C)	●
	<b>EA M-121HP™</b>	30680	50 ml dual cartridge	Amber	Room temperature	Thermoplastic, polycarbonate, polyvinylchloride, metal, glass, ceramic	11,000	-65°F to 300°F (-54°C to 149°C)	●
URETHANE	<b>UK M-06FL™</b>	30676	50 ml dual cartridge	Off-White	Room temperature	Thermoplastic, thermoset plastic, polycarbonate, elastomer, metal, glass, ceramic	38,000	-65°F to 250°F (-54°C to 121°C)	●

ITEMS IN RED = Source's PICK or NEW

\* Made-to-order item.

## Medical Device Epoxy & Urethane Adhesive Dispensing Equipment

	LOCTITE® PRODUCT	ITEM NUMBER	USED TO DISPENSE	PACKAGE TYPE & SIZES	MIX RATIOS	VISCOSITY RANGE	TYPE	CONSUMABLES – DISPENSE ACCESSORIES
HANDHELD APPLICATORS	<b>TWO-PART DISPENSING</b>							
		<b>30 ML MANUAL SYRINGE APPLICATOR</b>	1544934	Any fluid in 30 ml syringe including 25 ml syringes	30 ml syringe	N/A	Low to High	Manual
	<b>50 ML DUAL CARTRIDGE PNEUMATIC APPLICATOR</b>	97042	Two-Component Epoxies, Urethanes	50 ml dual cartridge	1:1, 2:1	Low to High	Pneumatic	

	LOCTITE® PRODUCT	ITEM NUMBER	DISPENSE PATTERNS	USED TO DISPENSE	PACKAGE TYPES & SIZES	VISCOSITY RANGE	VACUUM SUCK-BACK	CONSUMABLES – DISPENSE ACCESSORIES
DISPENSE SYSTEMS	<b>SYRINGE DISPENSING SYSTEMS</b>							
		<b>POSI-LINK™ DISPENSE SYSTEM</b>	See Page 171	Dot, Drop, Bead	Gel Adhesives, Instant Adhesives, Light Cure/ Acrylics, Epoxies	Prepackaged 5 ml syringe 10 ml syringe 25 ml syringe	Low to Paste	Yes

# Equipment



163	EQUIPMENT
165	Controllers & Reservoirs
165	Light Cure Equipment
166	Handheld Applicators
166	Handheld Valves
166	Dispense Systems
167	Valves & Pumps
167	Two-Part Volumetric Dispensing
168	Hot Melt Equipment
168, 169	Motion Control Robot Dispense Systems
174	Consumables – Dispense Accessories
169	EQUIPMENT – MOTION CONTROL ROBOT DISPENSE SYSTEMS
171	EQUIPMENT – TWO-PART VOLUMETRIC DISPENSING
171	LOCTITE® Posi-Link™ Dispense System for Dual Cartridges
173	Meter Mix Systems
174	EQUIPMENT – CONSUMABLES – DISPENSE ACCESSORIES

## AS A FULL-SERVICE SUPPLIER OF EQUIPMENT, HENKEL OFFERS A WIDE VARIETY OF EQUIPMENT SERVICES TO ITS CUSTOMERS

Since 1971, Henkel Corporation has designed, built and integrated high-quality equipment solutions. From simple handheld devices to fully automated systems, Henkel offers a complete line of standard off-the-shelf LOCTITE® brand dispensing and light curing equipment, which can be integrated easily into your manufacturing process.

### YOUR EQUIPMENT Source

For more details, see the *LOCTITE® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).

### FACTORY REPAIRS

If you have equipment in need of repair, Henkel can restore it to original operating specifications. Customers often schedule preventive repairs to coincide with annual shutdowns. Henkel can work with you to get your equipment up and running in the fastest possible time frame. Rental equipment may be available on a short-term basis to minimize downtime.

#### Benefits of factory repair service include:

- Trained technicians evaluate equipment based on original design specifications to identify critical and preventive repair recommendations
- Equipment is repaired using original factory parts
- All equipment is fully tested to original quality specifications
- All repairs carry a 30-day labor and 90-day parts warranty

### CALIBRATIONS

Henkel provides calibration services for all of its light meters. All meters are calibrated to original calibration standards. Data is collected before and after calibration, and a calibration certificate is issued that states the test results. In addition, you can sign up with Henkel for calibration reminders. Also, all units are inspected during calibration for any needed repairs.

### FIELD SERVICE

Henkel technicians are available to travel to your location for repair services, preventive maintenance, training, or assistance in setting up a new system. Whatever you need, Henkel can provide the service.

### SPARE PARTS

Spare parts and accessories are available through the equipment services group of Henkel. Most common spare parts can be identified on our website at [www.equipment.loctite.com](http://www.equipment.loctite.com). If you cannot find the part you are looking for, our equipment services group can help you identify that part and provide you with a quote.

### REBUILD EXCHANGE PROGRAM

The Henkel rebuild exchange program offers customers a cost-effective way of streamlining the repair of dispensing valves. The rebuild program allows customers to send in an old valve and receive a reconditioned valve in return. Customers who participate in this program typically keep a spare valve in inventory, so if a valve goes down, it can be replaced immediately. The valve in need of repair is then sent to Henkel and a reconditioned valve is shipped back to the customer for future use.



# Equipment

164

Equipment

## Advantages of the rebuild exchange program are:

- Rebuilt equipment is less than half the cost of a new unit.
- Rebuilt equipment is shipped in one to two business days.
- Highly trained technicians use original factory parts.
- All equipment is specially treated with a Henkel proprietary technology to prolong its useful life with reactive adhesives.
- All rebuilds carry a 30-day labor and 90-day parts warranty.

## DISCOUNT EQUIPMENT

Henkel is able to offer a wide range of used or discontinued equipment at discounted prices. This equipment typically has been used in our rental program or has been used for customer demonstrations or trade shows. This equipment may have cosmetic blemishes but performs to original factory specifications. All equipment carries the same warranty as new equipment, and is fully tested and reconditioned prior to sale.

## EQUIPMENT RENTAL

Many of the equipment products that Henkel offers are available for short-term rental. Henkel's equipment rental program allows customers the flexibility to confirm the performance of our adhesive and equipment risk-free before investing in a purchase. If, during the first 30 days, you decide that you would like to purchase the rental equipment, the entire rental charge is credited toward your purchase.

### The benefits of this program include the following:

- The performance of a new manufacturing process can be confirmed before investing fully in the purchase of equipment.
- Short production runs can be accommodated without having to buy equipment.
- Equipment can be rented during the repair of production equipment, minimizing any downtime.

## LEASE-TO-OWN PROGRAM

Henkel offers a lease-to-own program for new equipment. According to the United States Equipment Lessors Association, 80% of all companies use leasing to acquire some or all of the machinery and equipment they use to run their businesses. Henkel's lease-to-own program provides an effective way for your business to acquire almost any Henkel equipment. Leases can be customized to each company's needs. Our program can also include other services and spare parts as part of the equipment lease. Let us customize a lease program to meet your needs.

## PREVENTIVE MAINTENANCE CONTRACTS

There are many misconceptions about preventive maintenance. One such misconception is that preventive maintenance is unduly costly. This may be true for some components, but not all. Without preventive maintenance, costs for lost production time from unscheduled equipment breakdown will be incurred. Also, preventive maintenance will result in savings due to an increase in effective system service life.

### Long-term benefits of preventive maintenance include:

- Improved system reliability
- Decreased cost of replacement
- Decreased downtime
- Better spare part inventory management

Henkel can create a preventive maintenance contract that fits your specific equipment and work with your maintenance staff to ensure maximum uptime of your equipment.

## REQUEST EQUIPMENT SERVICES

### On the Web

To learn more about the services Henkel offers, you can visit our website at [www.equipment.loctite.com/service](http://www.equipment.loctite.com/service). In addition to our services, the website offers manuals and technical information on LOCTITE® equipment products.

### Via Email

To request a quote or get more information, email your request to [equipment-customerservice@loctite.com](mailto:equipment-customerservice@loctite.com).

### By Telephone

If you wish to speak to us regarding an equipment service, you can call 860-571-5174 to speak to an equipment services representative.

If you have a question regarding equipment setup or operation, our technical information staff is available to help. To contact a staff member, call 1-800-LOCTITE (562-8483) and choose the technical service option.

## LOCTITE® EQUIPMENT WEBSITE

To better support our wide array of equipment services, our equipment website provides easy access to all service options and inquiries for all LOCTITE® equipment you may be interested in. Technical literature, equipment showroom locator, operational videos, and much more are all at your fingertips for quick and easy access. You can also choose to purchase directly online using a major credit card. Select from our wide array of adhesive dispensing and light curing equipment. Shipping time for most items is just one to two business days.

Visit our website at [www.equipment.loctite.com/service](http://www.equipment.loctite.com/service).

# Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



## CROSS-REFERENCE

We have provided you the **item numbers, names and page numbers** for each piece of equipment listed on this page for **easy cross-reference** to the sections where the equipment details can be found.

**HELPFUL HINTS**

## HENKEL OFFERS A WIDE VARIETY OF LOCTITE® EQUIPMENT AND ACCESSORIES TO ITS CUSTOMERS

Below is an overview of the different types of LOCTITE® equipment and accessories that Henkel has to offer. For more details, you can find the items in the corresponding adhesives sections listed below. In addition, dispense systems and accessories are featured in much greater detail later in this chapter.

### CONTROLLERS & RESERVOIRS

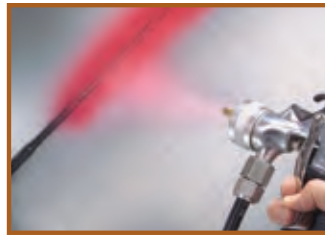
LOCTITE® brand controllers and reservoirs can be used as the chief components, along with a selection of LOCTITE® brand parts and accessories or with your own parts, to create a complete custom dispensing system designed to meet your specific needs and manufacturing goals. Selection of a LOCTITE® brand controller and reservoir is based on the adhesive or fluid being used, the package or container the adhesive or fluid is supplied in, and the overall requirements of the manufacturing process.

### LIGHT CURE EQUIPMENT

Henkel offers the widest selection of light curing equipment available from any one company on the market today. Our LOCTITE® brand ensures you have the most innovative and dependable systems for all your light curing adhesive applications. Whether your process calls for a manual, semiautomatic or fully integrated automatic solution, you will find the LOCTITE® brand light curing device to meet your specific requirements. Please see the charts below that summarize our complete line.

Integrated Reservoir Controllers		For more information, see page number(s):	
Item #	1390322 Integrated Semiautomatic Dispenser – 0 to 15 psi (Low Level Sensing)	12, 24, 36, 127, 139, 147, 160	
	1390321 Integrated Semiautomatic Dispenser – 0 to 100 psi (Low Level Sensing)	12, 24, 36, 127, 139, 147, 160	
Reservoirs			
	982720 Bond-A-Matic® 3000 Reservoir – 0 to 15 psi (Low Level Sensing – DC)	12, 24, 127, 139, 147	
	982726 Bond-A-Matic® 3000 Reservoir – 0 to 15 psi	12, 24, 127, 139, 147	
	982723 Bond-A-Matic® 3000 Reservoir – 0 to 100 psi (Low Level Sensing – DC)	12, 24, 127, 139, 147	
	982727 Bond-A-Matic® 3000 Reservoir – 0 to 100 psi	12, 24, 127, 139, 147	
	98090 Shot Miser™ Reservoir – 1 Liter	12, 24, 139, 147	
	982880 4 Liter Gravity Feed Reservoir	139, 147	
Multifunction Controllers			
	97152 Dual Channel Automatic Controller	12, 25, 127	
	1022006 Digital Multifunctional Controller	12, 25	
Single Function Controllers			
	97101 Digital Dispense Controller	12, 25	
	1406023 Spray Valve Controller	12, 72, 128, 139, 147	

Light Cure Point Systems – LED Curing Devices		For more information, see page number(s):	
Item #	1427231 7700 LED Light Source	26, 156	
	806038 7703 LED Light Source	26, 156	
	1427232 7700-HD LED Light Source	26, 156	
	883979 7703-HD LED Light Source	26, 156	
	1369538 CureJet™ 405 LED	26, 156	
	1369539 CureJet™ 375 LED	26, 156	
	1369537 CureJet™ Indigo® LED	26, 156	
	1364033 LED Controller – Single Curejet™	26, 156	
	1180632 CureJet™ Quad Controller	26, 156	
Light Cure Point Systems – Wand Systems			
	1514634 EQ CL10 Quad LED Controller	26, 156	
	1661548 EQ CL15 UV Wand System	26, 156	
Light Cure Line Systems – LED Curing Devices			
	1447728 LED Single Line Array Controller	26, 156	
	1449336 LED Line Array 405 nm Light Source	26, 156	
	1449337 LED Line Array 365 nm Light Source	26, 156	
Light Cure Flood Systems – LED Curing Devices			
	1167582 LED Flood Cure, 375	26, 156	
	1167589 LED Flood Cure, Indigo®	26, 156	
	1167593 LED Flood Cure, 405	26, 156	
	1359255 LED Flood Controller	26, 156	
Light Cure Flood Systems – Enclosed Chamber & Flood Systems			
	98039 Zeta® 7401 UV Chamber	25	
	98413 Zeta® 7411-S UV Flood System	25	
	1113131 Focused UV Flood Curing System	25	
Light Cure Flood Systems – Cure Conveyors			
	98003 Zeta® 7415 UV Benchtop Conveyor	25	
	1241543 UV Curing Conveyor	25	
Light Cure Flood Systems – Light Sources			
	98004 Electrodeless Lamp Assembly and Power Supply – 208 VAC	25	
	98005 Electrodeless Lamp Assembly and Power Supply – 240 VAC	25	
	980160 High Intensity Ultraviolet Sources	25	
Light Cure Meters			
	1265282 Radiometer Dosimeter for Visible LED and UV Light	25, 26, 156	
	1390323 Radiometer Dosimeter for UV LED and UV A/B Light	25, 156	
	1406024 UV Spot 7020 Radiometer	25, 156	



## HANDHELD APPLICATORS

LOCTITE® brand handheld applicators are ergonomically designed for the hand delivery of adhesives and fluids directly from their original package. Whether pneumatic or manual, each item is designed for the simple, clean, handheld dispensing of fluids, and to reduce waste and operator contact over other methods. Selection of a LOCTITE® brand handheld applicator is based on product type, package configuration and process requirements.

Item #	Bottle Dispensing	For more information, see page number(s):
98414	50 ml Hand Pump	127, 139, 147
97001	250 ml Hand Pump	127, 139, 147
98345	Soft Squeeze Bottle – 2 fl. oz.	11
98346	Soft Squeeze Bottle – 4 fl. oz.	11
98347	Soft Squeeze Bottle – 8 fl. oz.	11
1506477	CA Volumetric Hand Pump	11, 160
Syringe Dispensing		
1233800	10 ml Gel CA Syringe Dispenser	11, 160
1544934	30 ml Manual Syringe Applicator	11, 23, 36, 45, 72, 160, 162
Tube Dispensing		
1083845	50 ml-F Tube Squeeze Dispenser	36, 72, 139, 147
Cartridge Dispensing		
1093940	Manual Cartridge Applicator – 300 ml	32, 46, 64, 66, 72, 77, 78
1093981	Heavy Duty Manual Cartridge Applicator – 600 ml	64, 66
Two-Part Dispensing		
98472	50 ml Dual Cartridge Manual Applicator – 1:1, 2:1	40, 46, 48, 119
1034026	50 ml Dual Cartridge Manual Applicator – 10:1	40, 46, 48
97042	50 ml Dual Cartridge Pneumatic Applicator	40, 46, 48, 162
1493310	50 ml S-Style Dual Cartridge Pneumatic Applicator	40, 46, 48
984211	Conversion Kit (Manual) for 400 ml Cartridges	40
984210	Conversion Kit (Pneumatic) for 400 ml Cartridges	40
983436	200 ml Dual Cartridge Manual Applicator	46, 48
983438	400 ml Dual Cartridge Manual Applicator	40, 46, 48
985246	490 ml Dual Cartridge Manual Applicator	40, 46, 48
983437	200 ml Dual Cartridge Pneumatic Applicator	46, 48
983439	400 ml Dual Cartridge Pneumatic Applicator	40, 46, 48
985249	490 ml Dual Cartridge Pneumatic Applicator	40, 46, 48
1372751	Fixmaster® Universal Dispenser	46, 48, 115, 116
1500890	400 ml Dual Cartridge Pneumatic Applicator	46, 48

## HANDHELD VALVES

LOCTITE® brand handheld dispensing valves are used where ergonomic design for hand dispensing of fluids is desired. Designed for use with LOCTITE® brand controllers and reservoirs, these handheld valves use passive wetted components for universal compatibility with many fluids. Selection of a LOCTITE® brand handheld valve is based on the desired dispensing controls, the dispense principal of the delivery system and other process requirements.

Item #	Low Viscosity Cyanoacrylate Applicator	For more information, see page number(s):
97130	LV Handheld Applicator	11, 128, 140, 148
General-Purpose Applicators		
97111	Manual Handheld Applicator	23, 128, 140, 148
97112	Pneumatic Handheld Applicator – Foot Activated	23, 128, 140, 148
97116	Pneumatic Handheld Applicator – Finger Activated	23, 128, 140, 148
Syringe Dispense Systems		
97131	Vari-Drop™ Applicator – with PTFE tubing	11, 128, 140, 148
97132	Vari-Drop™ Applicator – without PTFE tubing	11, 128, 140, 148

## DISPENSE SYSTEMS

LOCTITE® brand dispense systems available from Henkel are designed to offer the total package for fluid delivery. Whether you use a LOCTITE® brand adhesive product, or any other brand, these complete systems are ready for immediate operation and offer the manufacturing flexibility and reliability you're seeking. Selection of a LOCTITE® brand complete dispensing system is based on the product being used, package size and process requirements.

Item #	Volumetric Bottle Dispensers	For more information, see page number(s):
98548	Benchtop Peristaltic Dispenser	12, 24, 128, 140, 160
Complete Pressure-Time Bottle Dispense Systems		
982719	Bond-A-Matic® 3000 Dispenser – 0-15 psi	12, 24, 36, 128, 140, 148
982722	Bond-A-Matic® 3000 Dispenser – 0-100 psi	12, 24, 36, 128, 140, 148
Pneumatic Cartridge Dispensing		
98022	300 ml Cartridge Pusher	11, 24, 36, 45, 72, 78, 104, 106
98319A	300 ml Pneumatic Cartridge Dispensing Retainer	11, 24, 45, 72, 78, 104
1714379	HD10 300 ml Pneumatic Cartridge Dispenser	11, 24, 32, 45, 72, 78, 80, 104
1046901	High Pressure 300 ml Benchtop Cartridge Dispenser	32, 36, 45, 78, 104
960304	Powerline II 300 ml Dispenser	32, 80
1175530	Pneumatic Handgun	56
Syringe Dispense Systems		
98377	Posi-Link™ Dispense System (Accessories Required)	171, 172
97006*	Precision Syringe Dispensing System	12, 24, 160
883976	Digital Syringe Dispensing System	12, 24, 160
1514629	SD10 Digital Syringe Dispenser	12, 24, 160
98050	Foot Pedal Dispenser	12, 24
Thread Sealant & Anaerobic Gasketing Delivery Systems		
998400	Dial-A-Seal® Applicator	147
986000	Pump-A-Bead™ II Dispenser	72
Tube Bonding		
98445	Light Cure Acrylic Adhesive Dispensing System	160

\* Syringe Air-Line Adapter sold separately.

LOCTITE® HANDHELD VALVES FLUID CAPABILITY CHART	97130	97111	97112	97116	97131/97132
ACCELERATORS	•	•	•	•	•
ACRYLICS		•	•	•	•
ACTIVATORS	•	•	•	•	•
ANAEROBICS	•	•	•	•	•
CYANOACRYLATES	•				•
INKS	•	•	•	•	•
OILS		•	•	•	•
PAINTS		•	•	•	•
PRIMERS	•	•	•	•	•
REAGENTS	•	•	•	•	•
SOLVENTS	•				•
UV & LIGHT CURE FLUIDS		•	•	•	•
UV ANAEROBICS		•	•	•	•
WATER	•				

# Equipment

## YOUR EQUIPMENT Source

For more details, see the **LOCTITE® Equipment Sourcebook, LT-3669**, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



### CROSS-REFERENCE

We have provided you the **item numbers**, **names** and **page numbers** for each piece of equipment listed on this page for **easy cross-reference** to the sections where the equipment details can be found.

**HELPFUL HINTS**

## VALVES & PUMPS

LOCTITE® brand dispensing valves and pumps are value-added, robust, dispensing valves for adhesive or fluid delivery. Each valve is uniquely designed to meet different manufacturing needs. These valves should be combined with a reservoir and/or a controller. Selection of a LOCTITE® brand valve or pump is based on the chemistry and viscosity of the adhesive or fluid being used and process requirements.

Item #	High Precision Valves		For more information, see page number(s):
97113	Stationary Applicator Valve – 1/4 in. Tube		11, 36, 140, 148, 170
97114	Stationary Applicator Valve – 3/8 in. Tube		11, 36, 140, 148, 170
98084	Micro Needle Valve		23, 160, 170
<b>High Performance Diaphragm Valves</b>			
1611449	VA10 Micro Diaphragm Valve		11, 23, 160
1730181	VA15 Diaphragm Valve		11
98009	Light Cure Dispense Valve		11, 23, 128, 140, 148, 160, 170
98013	Cyanoacrylate Dispense Valve		11, 127, 140, 148, 160, 170
<b>General Duty Diaphragm Valves</b>			
97135	Diaphragm Valve		128, 140, 148
97136	Diaphragm Valve		128, 140, 148
<b>Spray Valve</b>			
98520	Spray Valve		72, 128, 139, 140, 147, 148
<b>High Viscosity Fluid &amp; Paste Valves</b>			
986300	Poppet Valve		72, 128, 140, 148, 170, 180
1960414	VA26 Dispense Valve – 50 Bar		12, 25, 127, 140, 148
1153502	High Pressure Dispense Valve – 150 Bar		32, 36, 45, 78, 104
<b>Pinch Tube Valve</b>			
97141	Pinch Tube Valve		172
<b>Positive Displacement Pump</b>			
983330	Positive Displacement Pump		12, 25, 127, 140, 148

## TWO-PART VOLUMETRIC DISPENSING

### LOCTITE® POSI-LINK™ DISPENSE SYSTEM FOR DUAL CARTRIDGES

When you need high precision dispensing from your prepackaged dual cartridge adhesive, the LOCTITE® Posi-Link™ Dispense System is the solution. This system offers dispensing accuracy well beyond any pneumatic cartridge dispenser down to 0.001 ml drop size. Select your system based on cartridge size and adhesive ratio requirements.

#### LOCTITE® Posi-Link™ Dispense System for Dual Cartridges

For more information on LOCTITE® Posi-Link™ Dispense Systems, please refer to **page 171**, where you can find information on the parts that make up the system, including the controller, actuator, dual cartridge nests, pinch tube valve and technical information.

### LOCTITE® METER MIX SYSTEMS\*

When your LOCTITE® two-part adhesive application takes on a larger dimension, Henkel has the two-part volumetric dispensing solution with our high precision LOCTITE® Meter Mix Dispense Systems. You can choose either fixed or variable ratio units for any of our featured systems and, together with a wide selection of reservoir systems, hoses, valves and other accessories, customize your system to meet your application requirements.

\* Requires special order through your local Henkel sales rep. For more information on LOCTITE® Meter Mix Systems, please refer to **page 173**.

#### Item # DuraPump™ Programmable Meter Mix System

1041649	1:1	1041639	4:1
1041644	2:1	1041638	10:1

#### DuraPump™ Pneumatic Meter Mix System

1041648	1:1	1041641	4:1
1041643	2:1	1041637	10:1

LOCTITE® VALVE & PUMP FLUID CAPABILITY CHART	97113/97114	98084	98009	98013	97135/97136	98520	986300	1838885	1153502	97135	983330	1611449
ACCELERATORS			•	•			•			•		•
ACRYLICS	•	•			•		•			•		•
ACTIVATORS			•	•			•			•		•
ANAEROBICS	•		•	•	•		•			•	•	
ANAEROBIC GASKETING							•					
CYANOACRYLATES	•			•	•					•		•
INKS	•	•	•	•	•	•				•		•
LUBRICANTS	•					•	•	•	•			•
MODIFIED SILANES								•	•			
NONABRASIVE GREASES							•		•			•
OILS	•		•	•	•					•		•
ONE-PART EPOXIES	•						•		•			•
PAINTS	•		•	•		•				•		•
PRIMERS			•	•		•				•		•
REAGENTS			•	•		•				•		•
SILICONES								•	•			•
SOLVENTS			•	•		•				•		•
UV & LIGHT CURE FLUIDS	•	•			•					•		•
UV ANAEROBICS	•		•	•	•					•		•
WATER		•	•	•	•	•				•	•	•





## HOT MELT EQUIPMENT

Henkel offers LOCTITE® Hysol® handheld hot melt applicators as well as LOCTITE® Hysol® Bulk Hot Melt Systems.

LOCTITE® Hysol® handheld hot melt applicators are state-of-the-art dispensing units designed for the application of hot melt adhesives. These units combine ergonomics, user-friendly design and reliability. Selection of a LOCTITE® Hysol® hot melt applicator should be based on the type of hot melt being used, stick diameter and process requirements.

LOCTITE® Hysol® bulk hot melt systems offer high performance control and reliability for all of your hot melt dispensing needs. You can rely on Henkel to supply you with performance hot melt adhesives as well as an array of standard high volume hot melt dispensing equipment. Henkel offers true one-stop shopping for your complete adhesive solution. These systems are rugged, compact and feature internal system diagnostics that monitor the temperatures and system settings.

For more information, see page number(s):

### Item # Handheld Hot Melt Dispensers

<b>1/2 in. Superstick Dispensers</b>		
916282	Hysol® 050A	16, 17, 18, 107, 108
1597635	Hysol® 050A-HT	16, 17, 18, 107, 108
<b>3/4 in. Maxistick Dispensers</b>		
98033	Hysol® 075	16, 17, 18, 107, 108
98034	Hysol® 075-LT	16, 17, 18, 107, 108
<b>1 3/4 in. SprayPac® and Polyshot Dispensers</b>		
98036	Hysol® 175-AIR	16, 17, 18, 107, 108
98040	Hysol® 175-AIR-HT	16, 17, 18, 107, 108
98037	Hysol® 175-SPRAY	16, 17, 18, 107, 108
98041	Hysol® 175-SPRAY-HT	16, 17, 18, 107, 108
2040430	EQ HM22	17, 18, 107, 108
<b>Urethane Dispenser</b>		
2011543	EQ HM18 Reactive Urethane Cartridge Dispenser	17, 18, 107, 108

### Handheld Hot Melt Nozzles & Accessories

A complete listing of Hot Melt Nozzles and Accessories can be found on pages 18 and 108. For custom hot melt dispense nozzles, contact the Special Equipment Group of Henkel at 1-800-LOCTITE (562-8483).

## MOTION CONTROL ROBOT DISPENSE SYSTEMS

Available in both Benchtop and SCARA model types, LOCTITE® brand robots are designed to simplify the dispensing of adhesives and sealants onto complex surface configurations. They allow manufacturers to dispense repeatedly and reliably patterns of liquid material on a programmed basis, resulting in improved process efficiencies, minimal material waste, and reduced manufacturing costs.

### Benchtop Robots & SCARA Robot Station

For more information on LOCTITE® Motion Control Robot Dispense Systems, please refer to page 169, where you can find product listings, technical information, mounting hardware, workbenches and guarding systems.

## CONSUMABLES – DISPENSE ACCESSORIES

Henkel offers a comprehensive line of LOCTITE® brand dispense tips, static mix nozzles and syringe barrel components. Our high precision stainless steel, tapered polyethylene and flexible polypropylene tips all feature a positive locking, helical thread design to ensure the tip will stay intact during the toughest applications. A wide variety of static mix nozzles are available to meet your two-part adhesive dispensing needs. High-quality syringe barrels and components will ensure consistent single-component adhesive dispensing needs are met.

### Dispense Tips & Accessories

You can find a complete listing of Dispense Tips and Accessories on pages 174-175.

### Cartridge Accessories

You can find a complete listing of Cartridge Accessories on page 175.

### Static Mix Nozzles & Accessories

You can find a complete listing of Static Mix Nozzles and Accessories on pages 176-178.

### LOCTITE® Brand Syringe Accessories

You can find a complete listing of LOCTITE® Brand Syringe Accessories on pages 179-180.

### LOCTITE® Brand Dispense Spare Parts

You can find a listing of LOCTITE® Brand Dispense Spare Parts on page 180.

# Motion Control Robot Dispense Systems

## YOUR EQUIPMENT *Source*

For more details, see the *LOCTITE® Equipment Sourcebook, LT-3669*, or visit us on the web for additional information, diagrams, products and our full line of equipment at [www.equipment.loctite.com](http://www.equipment.loctite.com).



- Available in both Benchtop and SCARA model types
- Designed to simplify the dispensing of adhesives and sealants onto complex surface configurations
- Allows for repeated and reliable dispense patterns of liquid material on a programmed basis
- Improves process efficiencies
- Minimal material waste
- Reduces manufacturing costs

## ROBOT TYPES

Benchtop robots are beam or gantry style robots designed to be placed on a bench. These robots carry one or more parts that are captured in a fixture that is mounted on the work surface. Motion in the X axis is achieved by moving the work surface forward and backward. The Y and Z axes are achieved by moving the tool head left and right and up and down, respectively, on the beam or gantry. When applicable, the fourth axis (R axis) is achieved by rotating the mounting shaft that protrudes from the tool head.

SCARA is an acronym for Selective Compliance Assembly Robot Arm. The robot is a multi-jointed arm that moves above the work surface. It must be mounted near the work surface by the user. The X and Y axes are achieved by changing the angles of the two arms. This creates a kidney-shaped dispensing area that is approximately 880 mm (34.6 in.) wide and 440 mm (17.3 in.) tall at the center. The Z axis is achieved by moving both arms up and down. On the 4-axis models, the R axis is achieved by rotating the mounting shaft that protrudes from the end of the arm.

LOCTITE® PRODUCT		200D BENCHTOP ROBOT	300D BENCHTOP ROBOT	400D BENCHTOP ROBOT	500D BENCHTOP ROBOT	RB20 500D DUAL BENCHTOP ROBOT	RB15 200D GANTRY ROBOT	S440 SCARA-N ROBOT
ITEM NUMBER (110 VOLT SYSTEMS)	3-AXIS	1597107	1452395	1452396	1578317	1682223	1670898	1008351
	4-AXIS	98283A	98291A	98299A	98606	N/A	N/A	1008338
TYPE		Benchtop	Benchtop	Benchtop	Benchtop	Benchtop	Gantry	SCARA
RANGE OF OPERATION	X AXIS	200 mm	300 mm	400 mm	500 mm	(2X) 250 mm	200 mm	Arm 1: 260 mm ± 90°
	Y AXIS	200 mm	320 mm	400 mm	500 mm	250 mm	200 mm	Arm 2: 180 mm ± 150°
	Z AXIS	50 mm	100 mm	100 mm	100 mm	500 mm	50 mm	100 mm
	R AXIS	± 360°	± 360°	± 360°	± 360°	N/A	N/A	± 360°
PORTABLE WEIGHT LIMITATIONS	WORK SURFACE	5.0 kg	10.0 kg	10.0 kg	10.0 kg	10.0 kg	N/A	N/A
	TOOL HEAD	2.0 kg	5.0 kg	5.0 kg	5.0 kg	5.0 kg	2.0 kg	5.0 kg
SPEED	PTP (X,Y) MAX.	400 mm/s	600 mm/s	600 mm/s	600 mm/s	600 mm/s	400 mm/s	1500 mm/s
	PTP (Z) MAX.	200 mm/s	320 mm/s	320 mm/s	320 mm/s	300 mm/s	200 mm/s	320 mm/s
	PTP (R)	6 to 600 %/s	8 to 800 %/s	8 to 800 %/s	8 to 800 %/s	N/A	N/A	10 to 1,000 %/s
ADDITIONAL INFORMATION		Please visit <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> for detailed drawings of all benchtop robots. Just search for the item number that you are interested in and scroll down to the product documentation.						

ITEMS IN RED = *Source's PICK* or *NEW*

## LOCTITE® RB10 ROTARY DISPENSING SYSTEM

Item Number 1635546

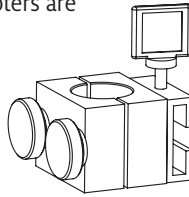
The LOCTITE® RB10 Rotary Dispense System is used for repetitive dispensing of circles or arcs. It is a fully integrated system that will directly control a cartridge or dispense valve and will operate any LOCTITE® Syringe Dispensing System. The rugged, all-metal construction is designed for tough manufacturing environments.



## LOCTITE® BRAND TIP LOCATION MOUNTING HARDWARE & GUARDING ENCLOSURES

### Mounting Bracket Kits

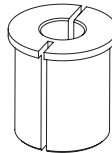
Mounting bracket kits are used to grasp syringe barrels, LOCTITE® Posi-Link™ syringe and dual cartridge nests, 300 ml cartridges, dispense valves, and LEDs. Mounting rails or adapters are required to mount the brackets on the robot or dispense station.



Item #	98316	30 ml syringe mounting bracket kit
	98318	300 ml cartridge mounting bracket kit
	98326	98009 and 98013 valve mounting bracket kit
	98327	97113 and 97114 valve mounting bracket kit
	98406	983914 and 986300 poppet valve mounting bracket kit
	98441	98520 spray valve and 98084 micro needle valve mounting bracket kit
	98646	Universal syringe bracket for Posi-Link™
	98647	50 ml dual cartridge bracket for Posi-Link™
	1034030	CureJet™ mounting bracket kit
	1638885	VA10 mounting bracket

### 3, 5 and 10 ml Syringe Adapters

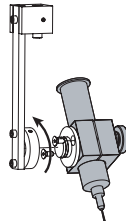
These adapters are inserted into the 30 ml syringe mounting bracket kit to adapt it for 3, 5 and 10 ml syringes. The 30 ml syringe mounting bracket (item 98316) must be purchased separately.



Item #	98320	10 ml adapter for use with 98316
	98321	5 ml adapter for use with 98316
	98322	3 ml adapter for use with 98316

### Mounting Adapter for All 4-Axis Robots

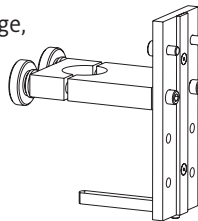
A mounting adapter is required when using LOCTITE® brand mounting hardware for all 4-axis robots. The mounting adapter includes a 360-degree rotation kit.



Item #	98336	Mounting adapter for 4-axis robots
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### Complete Mounting Kits for 3-Axis SCARA Robots\*

Complete mounting adapter kits hold the syringe, cartridge or valve, and position the dispense tip 60 mm from the end of the tool arm.



Item #	98343	97113 and 97114 valve holder
	98408	983914 and 986300 poppet valve holder

\* These are sized for 25 gauge needles and must be modified by the user for larger gauge sizes.

### Robot Needle Calibration Kit

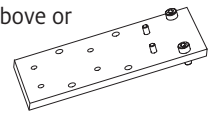
Electronic system integrates with D-Series robots for precise, repeatable tip location.



Item #	1569523	Robot Needle Calibration Kit
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### Z Height Adjustment Plate for 3-Axis Benchtop Robots

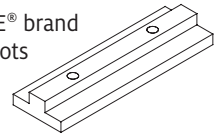
This plate allows you attach the mounting rails above or below the mounting bracket on the robot.



Item #	98357	Z height adjustment plate
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### Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations

A mounting rail is required when using LOCTITE® brand mounting hardware for all 3-axis Benchtop Robots and Dispense Stations.



Item #	98328	3 3/4 in. bar with two cap screws
	98329	8 3/4 in. bar with two cap screws

### Guarding Systems

#### FOR PLANTS REQUIRING HIGHER SAFETY LEVELS

- Light Curtain or Interlocked Sliding Door\* on front
- Sturdy extruded aluminum frame
- Polycarbonate panels on left, right and rear
- Operator control panel mounted on front right
- Direct plug-in to robots



\* Interlocked door model for Benchtop units only.

Item #	989787	200 Series Slide Door Guarding System	22" W x 26" D x 27" H
	989763	200 Series Light Curtain Guarding System	22" W x 24" D x 27" H
	989788	300 Series Slide Door Guarding System	30" W x 32" D x 30" H
	989771	300 Series Light Curtain Guarding System	30" W x 30" D x 30" H
	989789	400/500 Series Slide Door Guarding System	32" W x 36" D x 35" H
	989777	400/500 Series Light Curtain Guarding System	32" W x 38" D x 35" H
	989852	SCARA Light Curtain Guarding System	48" W x 48" D x 36" H

# Two-Part Volumetric Dispensing – LOCTITE® Posi-Link™ Dispense System For Dual Cartridges

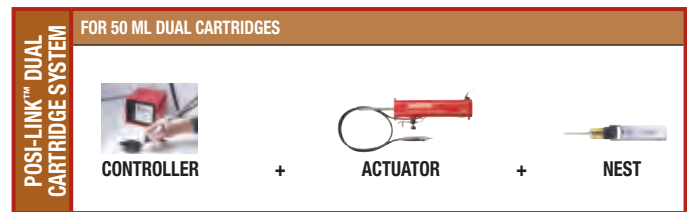
When you need high precision dispensing from your prepackaged dual cartridge adhesive, the LOCTITE® Posi-Link™ Dispense System is the solution. This system offers dispensing accuracy well beyond any pneumatic cartridge dispenser down to 0.001 ml drop size. This system specifically excels at eliminating dispense variability due to continuously changing viscosity (curing) in the mix nozzle. It can easily be integrated into any automated process and provide process feedback to a plant PLC. Select your system based on cartridge and adhesive ratio requirements.



LOCTITE® Posi-Link™ 10-50 System, Integrated Robotic Solution using a 50 ml dual cartridge, and showing wall-mounted actuator.



## COMPLETE LOCTITE® POSI-LINK™ DUAL CARTRIDGE SYSTEM



### LOCTITE® Posi-Link™ Controller

Provides all operator interface and control signals to actuator.

Item # 98377 Posi-Link™ Controller

(Each Item Sold Separately.)

### FEATURES:

- Dose selection by volume
- Easy programming controller, with storage capacity for 25 user-defined programs, reduces adhesive setup waste
- Small footprint to conserve benchtop space
- Automatic cartridge engagement to ensure easy and error-free cartridge changeover
- Adhesive level monitoring with low level visual and digital outputs
- Fault detection with visual and digital outputs for clogged nozzles, loss of pressure and system faults
- In-cycle visual and digital outputs
- Foot switch, finger switch or PLC remote start activation



## LOCTITE® Posi-Link™ Actuators\*

Provides adhesive dispensing by effecting incremental movements of dual pistons and displacing programmable quantities of adhesive within the cartridge regardless of viscosity changes in the mix nozzle.

Item # 98379 Posi-Link™ 10-50 Actuator 50 ml Cartridges

\* See [www.equipment.loctite.com](http://www.equipment.loctite.com) for use with syringes.

### FEATURES:

- Flexible orientation in any position
- Easily fits below an industrial workbench or wall mounts with brackets supplied to conserve benchtop space
- Lightweight remote dispense head has a “positive link” to actuator via a 7-foot tether, allowing ergonomic handheld dispensing or mounting directly on robotic arms
- Easily attaches to the dual cartridge nests (sold separately) to accommodate alternate cartridge barrel sizes
- Mechanically linked dual plungers guarantee proper ratios are achieved
- Positive shut-off pinch tube available, which directly attaches to the mix nozzle, eliminating dripping



## LOCTITE® Posi-Link™ 50 ml Dual Cartridge Nests

Connects the actuator to the dual cartridge.

Item # 98641 1:1/2:1 – 50 ml Cartridge Used with LOCTITE® Posi-Link™ 10-50 Actuator  
 Item # 98642 10:1 – 50 ml Cartridge Used with LOCTITE® Posi-Link™ 10-50 Actuator

### THEORY OF OPERATION:

A disposable dual cartridge is effectively used as a dual metering piston/cylinder.

Because the individual chambers of a dual cartridge are of a known and constant diameter, a given incremental measurement of the dual pistons will displace a known volume of adhesive within each chamber at an exact ratio. This dual cartridge system functions identically to a LOCTITE® Posi-Link™ Syringe System, except that it has two plungers within the dispense head. These plungers simultaneously act on two chambers within the dual cartridge. You can view a functionality diagram on [www.equipment.loctite.com](http://www.equipment.loctite.com).



## LOCTITE® Pinch Tube Valve

Item # 97141 Pinch Tube Valve



### FEATURES:

- Valve attaches directly to the end of the square mix nozzle
- Provides positive no-drip shut-off, using disposable pinch tube elements



### FOR 50 ML DUAL CARTRIDGES – OPTIONAL

Pinch Tube Valve  
 +  
 97541 (10 pack) LOCTITE® Replacement Tube Inserts  
 +  
 98671 LOCTITE® Solenoid Valve

TECHNICAL SPECIFICATIONS	PRODUCT	
		
POWER SOURCE	9 ft. Communication Cable	100/240 VAC; 47/60 Hz
DIMENSIONS	5.375" H x 6" D x 6" W	34" H x 4" D x 5" W
TOTAL WEIGHT	2 lbs.	13 lbs.
DISPENSE HEAD WEIGHT <i>(INCLUDES NEST AND PINCH TUBE VALVE)</i>	N/A	2 lbs.
AIR SUPPLY	N/A	40 to 100 psi
POSI-LINK™ ELECTRO/HYDRAULIC TETHER	N/A	7 feet
MINIMUM <sup>1</sup> DISPENSE VOLUME	N/A	0.005 ml
DISPENSE RATE <sup>2</sup>	N/A	0.009 – 0.4 ml/second
MAXIMUM CYCLE RATE	N/A	1 cycle per second
USED TO DISPENSE	N/A	All Dual 50 ml Cartridge 1:1 / 2:1 / 10:1 ratio adhesives
PARTS INCLUDED	(1) LOCTITE® Posi-Link™ Controller (1) Foot Switch	(1) LOCTITE® Posi-Link™ Actuator (1) 9 ft. Controller/Actuator Signal Cord (1) 110 Power Cord (1) Air Inlet Pressure Regulator Gauge (1) Wall or Table Mounting Bracket (1) Instruction Manual
ADDITIONAL INFORMATION	For Spare Parts and Accessories, see <a href="http://www.loctite.equipment.com">www.loctite.equipment.com</a> . For Static Mix Nozzles and Accessories, see pages 176-178.	



<sup>1</sup> Minimum Dispense Volume is a machine dispense capability. As with all mix nozzle systems, the minimum possible shot with “proper mixing” is dependent on a properly specified combination of adhesive, mix nozzle and dispense rate.

<sup>2</sup> Maximum Dispense Rate varies based on adhesive viscosity and mix nozzle selection.

# Two-Part Volumetric Dispensing – LOCTITE® Meter Mix Systems

- Customize your system to meet your application requirements. A wide selection of reservoir systems, hoses, valves and other accessories is available. Visit [www.equipment.loctite.com](http://www.equipment.loctite.com) or contact your local Henkel sales rep for more information.



LOCTITE® PRODUCT	DURAPUMP™ PROGRAMMABLE METER MIX SYSTEM 	DURAPUMP™ PNEUMATIC METER MIX SYSTEM 
<b>MACHINE RATIO CAPABILITIES/ITEM NUMBERS</b>		
<b>FIXED</b>	1041649 – 1:1 1041644 – 2:1 1041639 – 4:1 1041638 – 10:1 1041635 – Custom Ratios (available from 1:1 up to 9.99:1)	1041648 – 1:1 1041643 – 2:1 1041641 – 4:1 1041637 – 10:1
<b>MMA COMPATIBLE</b>	N/A	1041647 – 1:1 1041636 – 10:1 1041620 – Custom Ratios
<b>PERFORMANCE SPECIFICATIONS</b>		
<b>DISPENSE RANGE</b>	0.40 cc to 28 cc	
<b>CYCLE RATE</b>	Up to 20 per minute	
<b>MIX RATIO RANGE BY VOLUME</b>	1:1 to 10.0:1	
<b>MAXIMUM PRODUCT FEED PRESSURE</b>	2000 psi	
<b>WETTED COMPONENT MAKEUP</b>		
<b>ABRASION-RESISTANT PUMPS</b>	Standard	Standard
<b>MILD STEEL PUMPS</b>	Not Required	Not Required
<b>INERT PUMPS</b>	Standard	Standard
<b>DISPENSE VALVES</b>		
<b>MIX MANIFOLD</b> <small>(ACCEPTS MIX NOZZLE DIRECTLY)</small>	Standard	Standard
<b>HANDHELD VALVE WITH TRIGGER PISTOL GRIP</b>	Optional	Optional
<b>HANDHELD VALVE WITH LEVER ACTUATION</b>	N/A	N/A
<b>ADJUSTABLE BOOM MOUNTED VALVE</b>	N/A	N/A
<b>SHOT CONTROL CAPABILITIES</b>		
<b>MANUAL/OPERATOR CONTROLLED SHOT</b>	Standard	Standard
<b>MECHANICALLY ADJUSTED LIMIT SWITCH SHOT CONTROL</b>	N/A	Standard
<b>PREPROGRAMMED ELECTRONIC SHOT SIZE CONTROL</b>	Standard	N/A
<b>MULTIPLE PREPROGRAMMED SHOT SIZE CONTROL</b>	Standard	N/A
<b>TOUCH SCREEN MACHINE CONTROLS</b>	Standard	N/A
<b>OTHER MACHINE FEATURES</b>		
<b>FEED ACCUMULATORS FOR BULK PACKAGE PRESSURE FEED</b>	Not Required	Not Required
<b>MAINTENANCE TOTALIZER</b>	Standard	N/A
<b>LOW/HIGH LEVEL SENSING CAPABLE</b>	Optional – Low Level Only	N/A
<b>SUPERVISOR MACHINE LOCK-OUT</b>	Standard	N/A
<b>PNEUMATICALLY ADJUSTABLE FLOW CONTROL</b>	Standard	Standard
<b>AUTO-PURGE CAPABLE</b>	Standard	N/A
<b>FOOT SWITCH CONTROLLED</b>	Standard	Standard
<b>TECHNICAL SPECIFICATIONS</b>		
<b>USED TO DISPENSE</b>	Two-Part Epoxies, Two-Part Acrylics, Two-Part Polyurethanes, Two-Part Silicones	Two-Part MMAs, Two-Part Epoxies, Two-Part Acrylics, Two-Part Polyurethanes, Two-Part Silicones
<b>PACKAGE TYPES</b>	Any, excluding Dual Cartridges	Any, excluding Dual Cartridges
<b>ADDITIONAL INFORMATION</b>	Please visit <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> for feed system options and accessories (sold separately).	

ITEMS IN RED = Source's PICK or NEW

# Consumables – Dispense Accessories

- Full line of LOCTITE® brand dispense tips, static mix nozzles and syringe barrel components
- Available in stainless steel, tapered polyethylene and flexible polypropylene tips that all feature a positive locking, helical thread design to ensure the tip will stay intact during application
- Wide variety of static mix nozzles is available for two-part adhesive dispensing needs
- High-quality syringe barrels and components are available for single-component adhesive dispensing needs



## HIGH PRECISION STAINLESS STEEL DISPENSE TIPS

### ¼ Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
830704	–	Olive	14
98196	98197	Green	18
98198	98199	Pink	20
98200	98201	Purple	21
1585606	1585607	Blue	22
1635176	1635175	Orange	23
98624	98625	Red	25
98626	98627	Clear	27
98628	98629	Lavender	30
98114	98115	Yellow	32

### 1½ Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98163	98164	White	14
98165	98166	Amber	15
98167	98168	Green	18
98169	98170	Pink	20
98171	98172	Purple	21
98173	98174	Blue	22
98175	98176	Orange	23
98177	98178	Red	25
98179	98180	Light Grey	27

### ½ Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
1244444	–	Olive	14
98396	98397	Amber	15
98398	98399	Green	18
98400	98401	Pink	20
98424	98425	Purple	21
98402	98403	Blue	22
98611	98612	Orange	23
98404	98405	Red	25
1256848	1256497	Lavender	30
1255059	1255058	Light Grey	27

### 45° by ½ Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98236	98237	White	14
98240	98241	Amber	15
98244	98245	Green	18
98248	98249	Pink	20
98252	98253	Purple	21
98256	98257	Blue	22
98260	98261	Orange	23
98264	98265	Red	25
98268	98269	Light Grey	27

### 1 Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98216	98217	White	14
98218	98219	Amber	15
98220	98221	Black	16
98222	98223	Green	18
98224	98225	Pink	20
98226	98227	Purple	21
98228	98229	Blue	22
98230	98231	Orange	23
98232	98233	Red	25
98234	98235	Light Grey	27

### 90° by ½ Inch Stainless Steel Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98238	98239	White	14
98242	98243	Amber	15
98246	98247	Green	18
98250	98251	Pink	20
98254	98255	Purple	21
98258	98259	Blue	22
98262	98263	Orange	23
98266	98267	Red	25
98270	98271	Light Grey	27

# Consumables – Dispense Accessories

## TAPERED DISPENSE TIPS

### 1¼ Inch Polyethylene Tapered Tips Helical Thread and UV Light Block Additive



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98385	98386	White	14
98387	98388	Grey	16
98389	98390	Green	18
98391	98392	Pink	20
98393	98394	Blue	22
98658*	98659*	Red	25
98660*	98661*	Clear	27

\* Smaller gauge sizes.

## FLEXIBLE DISPENSE TIPS

### 1½ Inch Polypropylene Tips Helical Thread



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
97229	98069	Amber	15
97230	98070	Green	18
97231	98071	Pink	20
97232	98082	Red	25

## DISPENSE TIPS & ACCESSORIES

PRODUCT	Item Numbers	Description
	1146079 / 1146078	SS, PTFE-Lined, 25 Gauge (50/1,000 pack)
	1244443	SS, PTFE-Lined, 21 Gauge (50 pack)
	97233	Luer-Lok Adapter Kit, 20 Luer-Loks and 5 Adapters
	97248 / 98499	Tip Caps (50/1,000 pack)
	97261 / 98074	High Density Polyethylene, 15 Gauge, White (50/1,000 pack)
	97262	2 each of a variety of Helical Threaded 1/2" Stainless Steel Tips, Tapered Tips and Polypropylene Tips
	98652	Light-blocking Shield for Dispense Tips (10 pack)
	998390	Vari-Drop™ Applicator Brushes (10 pack)

## CARTRIDGE ACCESSORIES

PRODUCT	Item Number	Description
	98446	Roller Assembly 1" wide band
	98448	Roller Assembly 2" wide band
	98447	Replacement Rollers 1" wide (3 pack)
	98449	Replacement Rollers 2" wide (3 pack)
	98610	3/4" wide x 3/8" NPT Dispense Nozzle (10 pack)
	1044246	Aero Nozzle for silicones in aerosol cans (10 pack)
	98128	Cartridge Dispense Tip: 1/4" male Semco Thread (10 pack)
	98371	Cartridge-Needle Adapter: (Female Luer x 1/4" male Semco Thread) Luer-Lok adapter for dispense needle attachment (5 pack)
	1147763	Cartridge-Dispense Valve Adapter Assembly Fischbach Thread x 1/4" male NPT

## GENERAL-PURPOSE DISPENSE TIPS

### ½ Inch Stainless Steel Tips



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98208	98209	Olive	14
97225	98065	Amber	15
97226	98066	Green	18
97227	98067	Pink	20
98210	98211	Purple	21
98100	98080	Blue	22
98212	98213	Orange	23
97228	98068	Red	25
98214	98215	Clear	27

CHECK OUT OUR GENERAL-PURPOSE DISPENSE TIPS, WITH HELICAL THREADS AND SECURE PLASTIC BOX CONTAINERS.



## GENERAL-PURPOSE TAPERED DISPENSE TIPS

### 1¼ Inch Polyethylene Tapered Tips



50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98272	98273	Tan	14
97221	98061	Grey	16
97222	98062	Green	18
97223	98063	Pink	20
97224	98064	Blue	22

## ADDITIONAL DISPENSE TIPS & ACCESSORIES

### LOCTITE® Showcase Needle Variety Kit

Item Number: 98439

This kit contains five each of an assortment of high precision Stainless Steel Tips in various lengths and gauges. Tapered and Flexible Dispense Tips are also included. All Dispense Tips have helical thread Luer-Lok hubs for reliable locking.














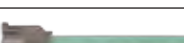







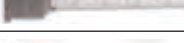





## CARTRIDGE ACCESSORIES

PRODUCT	Item Number	Description
	97215	Cartridge-Syringe Adapter: 1/4" Semco Thread x Female Luer, used for downloading
	98181	Cartridge-Tube Fitting Adapter: (1/4" FNPT x 1/4" male Semco Thread) used for connecting tube fittings to cartridges (984832 also required and sold separately) (3 pack)
	984832	Tube Fitting: 1/4" male NPT x 1/4" feed tube (10 pack)
	982644	Cartridge Adapter: SS, (1/4" FNPT x 1/4" female Fischbach Thread), used for connecting tube fittings
	1045339	Cartridge-Needle Adapter: 1/4" NPT Thread x Female Luer - shown with 982644 for 1/4" Fischbach, for needle attachment (5 pack)
	1044247	Cartridge-Syringe Adapter: 1/4" MNPT x Female Luer shown with 982644 for 1/4" Fischbach, used for downloading (5 pack)



## LOCTITE® Brand Static Mix Nozzles & Accessories

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE QUANTITY	DESCRIPTION
<b>MIX NOZZLES FOR 50 ML DUAL (A STYLE) CARTRIDGES</b>			
	778273 1405182	10 5,000	50 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 3.25" overall length, 5.3 mm inner dimension, 16 elements; 1:1, 2:1 mix ratios.
	720227 826190	10 1,000	50 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 4.5" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1, 4:1 mix ratios.
	98622 983509	10 2,000	50 ml Mix Nozzle, Slip-Luer, 5.9" overall length, 0.250" inner diameter, 20 elements; 1:1, 2:1 and 4:1 mix ratios. 
	98623 98364	10 2,000	50 ml Mix Nozzle, Stepped Tip-Luer, 5.9" overall length, 0.250" inner diameter, 20 elements; 1:1, 2:1 and 4:1 mix ratios. 
	720225	10	50 ml Mix Nozzle, Luer Tip, 6.0" overall length, 6.35 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	720230 1116241	10 2,500	50 ml Mix Nozzle, Stepped Tip, 6.0" overall length, 6.35 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	1145743 1143355	10 2,000	50 ml Mix Nozzle with Integral Needle Adapter, 5.9" overall length, 6.35 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios.
	1259190	10	50 ml Round Mix Nozzle, Luer Tip, 4.7 mm inner diameter, 3.3" long, 16 elements; 1:1, 2:1 mix ratios.
	1334299	100	50 ml Mix Nozzle, Taper Tip, 3.0 mm inner diameter, 17 elements; 1:1, 2:1 – A Cartridges.
	720221 1061921	10 100	50 ml Mix Nozzle, 10:1 mix ratio, 17 elements at .213 ID, 13 elements at .157 ID, 5.87 m length
<b>MIX NOZZLES FOR 50 ML DUAL (B AND S STYLE) CARTRIDGES</b>			
	1573156 1573154	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 3.6" overall length, 5.3 mm inner dimension, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573153 1573151	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 4.8" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573141 1573142	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 4.8" overall length, 5.3 mm inner dimension, 24 elements; 4:1, 10:1 mix ratios – B Cartridges.
	1197606	10	50 ml Mix Nozzle, Taper Tip, 2.4" overall length, 2.5 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B + S Cartridges.
	1434516	5	50 ml CA Mix Nozzle, Taper Tip, 2.4" overall length, 2.5 mm inner diameter, 16 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
	1440017	100	50 ml Mix Nozzle, Taper Tip, 3.0" overall length, 3.2 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1329200	100	50 ml Mix Nozzle, Taper Tip, 3.0" overall length, 3.2 mm inner diameter, 16 elements; 4:1, 10:1 mix ratio – B + S Cartridges.
	1440016	100	50 ml Mix Nozzle, Taper Tip, 3.8" overall length, 4.2 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1440018	100	50 ml Mix Nozzle, Taper Tip, 3.8" overall length, 4.2 mm inner diameter, 16 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
	1573146 1573145	10 1,000	50 ml Mix Nozzle, Stepped Tip, 4.4" overall length, 5.4 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573144 1573143	10 1,000	50 ml Mix Nozzle, Stepped Tip, 5.2" overall length, 6.5 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573149 1573147	10 1,000	50 ml Mix Nozzle, Stepped Tip, 6.2" overall length, 6.5 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1034575	10	50 ml-B Mix Nozzle, Stepped Tip, 6.2" overall length, 6.5 mm inner diameter, 20 elements; 10:1 mix ratio – B Cartridges.














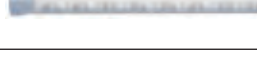

# Consumables – Dispense Accessories



## LOCTITE® Brand Static Mix Nozzles & Accessories (continued)







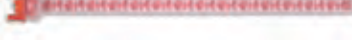




177

Equipment









LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE QUANTITY	DESCRIPTION
<b>MIX NOZZLES FOR 200 ML &amp; 400 ML DUAL (C STYLE) CARTRIDGES</b>			
	606052 804261	10 1,500	200/400 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 5.0" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1, 4:1 mix ratios.
	720226 848088	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 5.1" overall length, 7.5 mm inner dimension, 24 elements; 1:1; 2:1 mix ratios.
	874905 875472	10 500	200/400 ml Square Mix Nozzle, Threaded Bell End, 114.5 mm inner dimension, 187 mm overall length, 24 elements; 1:1, 2:1 mix ratios.
	720173 1053262	10 2,000	200/400 ml Mix Nozzle, Stepped Tip, 7.3" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720174 720222	10 1,500	200/400 ml Mix Nozzle, Stepped Tip, 8.8" overall length, 8 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720177 930705	10 1,000	200/400 ml Mix Nozzle, Stepped Tip, 10.9" overall length, 10 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	773794	50	200/400 ml Mix Nozzle, Stepped Tip, 7.4" overall length, 0.188" inner diameter, 32 elements; 1:1, 2:1 and 4:1 mix ratios.
	989518	10	200/400 ml Mix Nozzle, Stepped Tip, 9.0" overall length, 0.188" inner diameter, 48 elements; 1:1, 2:1 and 4:1 mix ratios.
	918088	10	200/400 ml Mix Nozzle, Luer Tip, Slip Luer, 9.5" overall length, 0.25" inner diameter, 32 elements; 1:1 and 2:1 mix ratios.
	1032026 1098256	10 1,200	200/400 ml Mix Nozzle, 11.3" overall length, 8 mm inner diameter, 32 elements; 1:1, 2:1 mix ratios.
	98672 98430	10 500	200/400 ml Mix Nozzle, Stepped Tip, 14.2" overall length, 9.3 mm inner diameter, 40 elements; 1:1, 2:1 mix ratios.
	98367	1,000	200/400 ml Snap Tip Mix Nozzle, 9.3" overall length, 9.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	1228790	1,000	200/400 ml Stepped Tip Mix Nozzle, 8.5" overall length, 13 mm inner diameter, 18 elements; 1:1, 2:1 mix ratios.
	243335	6	200/400 ml Mix Nozzle, Stepped Tip, 9.1" overall length, 13 mm inner diameter, 18 elements; 1:1, 2:1 mix ratios – Rapid Rubber.
	1065306	500	200/400 ml Mix Nozzle, Stepped Tip, 11.2" overall length, 9.3 mm inner diameter, 30 elements; 1:1, 2:1 mix ratios.
	1065313	500	200/400 ml Mix Nozzle, Stepped Tip, 11.6" overall length, 16.8 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.



## LOCTITE® Brand Static Mix Nozzles & Accessories (continued)

LOCTITE® PRODUCT	ITEM NUMBER	PACKAGE QUANTITY	DESCRIPTION
<b>MIX NOZZLES FOR 200 ML &amp; 400 ML DUAL (F STYLE) CARTRIDGES</b>			
	1573130 1573139	10 1,000	200/400 ml Square Mix Nozzle, Taper Tip, 5.2" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573133 1573140	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 5.4" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573132 1573134	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 7.1" overall length, 10.7 mm inner dimension 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573135 1573131	10 1,000	200/400 ml Mix Nozzle, Stepped Tip, 7.6" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573138 1573136	10 1,000	200/400 ml Mix Nozzle, Stepped Tip, 9.2" overall length, 8.0 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1084255	10	200/400 ml 4:1 and 490 ml 10:1 Mix Nozzle, 9.2" overall length, 8 mm inner diameter, Stepped Tip, 24 elements – F Cartridges.
	1084092 1084093	10 900	200/400-F ml Cartridge Mix Nozzle, 11.2" overall length, 10 mm inner diameter, Stepped Tip, 24 elements; 4:1, 10:1 mix ratios – F Cartridges.
<b>MIX NOZZLES FOR 300 ML SINGLE AXIS DUAL CARTRIDGES</b>			
	1100962	3	300 ml Single-Axis Cartridge Mix Nozzle, Threaded Tip, 10" overall length, 11.2 mm inner diameter; 20 elements.
	1100963	3	300 ml Single Axis Cartridge Mix Nozzle, Threaded Tip, 15.3" overall length, 14.3 mm inner diameter; 19 elements.
<b>SPRAYABLE CERAMIC MIX NOZZLES</b>			
	1248606	10	200/400 ml Spray Tip Mix Nozzle, 0.25" inner diameter, 24 elements for use with sprayable ceramic materials.
<b>MIX NOZZLES ADAPTERS</b>			
	720175 970655	10 2,000	Luer-Lok Adapter for 6 mm and 8 mm Stepped Tip Mix Nozzles, allows for Dispense Needle Attachment (10 pack). Mix Nozzles and Dispense Needles sold separately.

## LOCTITE® Brand Syringe Accessories

LOCTITE® PRODUCT	Item Number	Description	Contents
	98656 98657 97208 97245	3 ml Syringe Air Line Adapter 5 ml Syringe Air Line Adapter 10 ml Syringe Air Line Adapter 30 ml and 55 ml Syringe Air Line Adapter	2 Air Line Adapters – Common to all part numbers (Syringe Barrel sold separately)
	97216   97294   98416	10 ml Syringe Starter Kit   30 ml Syringe Starter Kit   55 ml Syringe Starter Kit	1 Filter Assembly with 2 Hose Crimps   5 Caps 5 Pistons 4 Clear Barrels 1 Black Barrel 5 Tips 1 Air Line Adapter
	97207  97244  98314	10 ml Clear Syringe Barrel Kit  30 ml Clear Syringe Barrel Kit  55 ml Clear Syringe Barrel Kit	20 Barrel Caps, 40 Pistons, 40 Barrels, 40 Barrel Tips  10 Barrel Caps, 20 Pistons, 20 Barrels, 20 Barrel Tips  5 Barrel Caps, 10 Pistons, 10 Barrels, 10 Barrel Tips
	97263  97264  98315	10 ml Black Syringe Barrel Kit for UV Adhesives  30 ml Black Syringe Barrel Kit for UV Adhesives  55 ml Black Syringe Barrel Kit for UV Adhesives	20 Barrel Caps, 40 Pistons, 40 Barrels, 40 Barrel Tips  10 Barrel Caps, 20 Pistons, 20 Barrels, 20 Barrel Tips  5 Barrel Caps, 10 Pistons, 10 Barrels, 10 Barrel Tips
	Various	Clear or Black 3, 5, 10, 30 and 55 ml Piston/ Syringe Combination Packages	See page 180 for Syringe and Piston options and item numbers.
	Various	Dark Amber Syringe and Piston options	Available upon request. Please contact your LOCTITE® Sales Representative or contact us at <a href="http://www.equipment.loctite.com">www.equipment.loctite.com</a> .
	Various	LOCTITE® Manual Syringe Kits	Each kit contains Plunger, Stopper and Clear Barrel, unassembled. See page 180 for Syringe and Piston options and item numbers.
	98501	LOCTITE® Applicator Holder for 10 ml, 30 ml and 55 ml Syringe Barrels (Red)	1 Holder (Syringe Barrel and Air Line Adapter sold separately)

## LOCTITE® Brand Syringe Accessories (continued)

LOCTITE® PRODUCT		Accessory Item Number	Description	Package Quantity
<b>Pneumatic Syringe Barrel and Piston Kits</b> <i>(Dark Amber Syringes are also available in the same packages. Call (860) 571-5174 for special orders.)</i>	Pneumatic Syringe Barrel and Piston	98479	3 ml Syringe Barrel and Piston, Natural	50
		98480	3 ml Syringe Barrel and Piston, Natural	1,000
		98481	3 ml Syringe Barrel and Piston, Black	50
		98482	3 ml Syringe Barrel and Piston, Black	1,000
		98483	5 ml Syringe Barrel and Piston, Natural	50
		98484	5 ml Syringe Barrel and Piston, Natural	1,000
		98485	5 ml Syringe Barrel and Piston, Black	50
		98486	5 ml Syringe Barrel and Piston, Black	1,000
		98487	10 ml Syringe Barrel and Piston, Natural	50
		98488	10 ml Syringe Barrel and Piston, Natural	1,000
		98489	10 ml Syringe Barrel and Piston, Black	50
		98490	10 ml Syringe Barrel and Piston, Black	1,000
		98491	30 ml Syringe Barrel and Piston, Natural	50
		98492	30 ml Syringe Barrel and Piston, Natural	500
		98493	30 ml Syringe Barrel and Piston, Black	50
		98494	30 ml Syringe Barrel and Piston, Black	500
		98495	55 ml Syringe Barrel and Piston, Natural	250
		98496	55 ml Syringe Barrel and Piston, Natural	50
	98497	55 ml Syringe Barrel and Piston, Black	50	
	98498	55 ml Syringe Barrel and Piston, Black	250	
	Pneumatic Syringe Barrel Only	98655	3 ml Syringe Barrel, Black	1,000
		98557	3 ml Syringe Barrel, Natural	1,000
		98576	5 ml Syringe Barrel, Black	1,000
		98559	5 ml Syringe Barrel, Natural	1,000
		98578	10 ml Syringe Barrel, Black	1,000
		98561	10 ml Syringe Barrel, Natural	1,000
		98122	30 ml Syringe Barrel, Black	500
		98563	30 ml Syringe Barrel, Natural	500
	Pneumatic Pistons Only	98125	3 ml Syringe Piston	1,000
		98584	5 ml Syringe Piston	1,000
98127		10 ml Syringe Piston	1,000	
98587		30 / 55 ml Piston	1,000	
<b>Manual Syringe Kits</b> <i>Each kit contains a plunger, stopper and barrel in the quantity indicated.</i>	1180639	3 ml Clear Manual Syringe Kit	10	
	1176432	3 ml Clear Manual Syringe Kit	1,000	
	1180638	6 ml Clear Manual Syringe Kit	10	
	1176431	6 ml Clear Manual Syringe Kit	1,000	
	1180637	10 ml Clear Manual Syringe Kit	10	
	1180633	10 ml Clear Manual Syringe Kit	1,000	
	1180636	35 ml Clear Manual Syringe Kit	10	
1180634	35 ml Clear Manual Syringe Kit	500		
<b>Tubing</b>	97970	3/8" Black PTFE-Lined Feed Tube	33 ft.	
	97972	1/4" Black PTFE-Lined Feed Tube	33 ft.	
	981821	1/4" Clear Polyethylene Feed Tube	33 ft.	
	981866	3/8" Clear Polyethylene Feed Tube	33 ft.	
	981994	1/4" Clear Nylon Feed Tube for Pump-A-Bead™ II	33 ft.	
	984688	Silicone Tubing for Dispense Valve Purging (10 Pack)	1 ft.	
<b>986300 – Poppet Valve, Acetal Copolymer Body</b>	986025	Nozzle: 0.025" diameter	1	
	986035	Nozzle: 0.035" diameter	1	
	986060	Nozzle: 0.060" diameter	1	
	986301	Valve Rebuild Kit	1	

## LOCTITE® Brand Dispense Spare Parts

LOCTITE® PARENT PRODUCT	Accessory Item Number	Description	Package Quantity
<b>Tubing</b>	97970	3/8" Black PTFE-Lined Feed Tube	33 ft.
	97972	1/4" Black PTFE-Lined Feed Tube	33 ft.
	981821	1/4" Clear Polyethylene Feed Tube	33 ft.
	981866	3/8" Clear Polyethylene Feed Tube	33 ft.
	981994	1/4" Clear Nylon Feed Tube for Pump-A-Bead™ II	33 ft.
	984688	Silicone Tubing for Dispense Valve Purging (10 Pack)	1 ft.
<b>986300 – Poppet Valve, Acetal Copolymer Body</b>	986025	Nozzle: 0.025" diameter	1
	986035	Nozzle: 0.035" diameter	1
	986060	Nozzle: 0.060" diameter	1
	986301	Valve Rebuild Kit	1

Your Source for  
**LOCTITE® PRODUCTS**  
**FOR DESIGN,**  
**ASSEMBLY,**  
**MANUFACTURING &**  
**MAINTENANCE**

LOCTITE® products are designed to meet the specifications and testing standards of a variety of agencies. The following is a list of products and standards to which such products may conform. Because such standards change or may be modified, no warranty is given regarding such compliance. The information provided below may be used, however, as a quick reference tool to aid in design or application. For up-to-the-minute information on agency approvals, or to inquire about additional agency approvals, please contact Henkel Technical Support at 1-800-LOCTITE (562-8483) with any inquiries. Last updated January 2017.

# Agency Listings

**NSF International**

**NON-FOOD COMPOUND**

- LOCTITE® 222MS™ Threadlocker, Low Strength/Small Screw
- LOCTITE® 242™ Blue Threadlocker, Medium Strength
- LOCTITE® 262™ Threadlocker, Medium to High Strength
- LOCTITE® 290™ Threadlocker, Wicking Grade
- LOCTITE® SI 587™ Blue, High Performance RTV Silicone Gasket Maker
- LOCTITE® SI 5900® Flange Sealant, Heavy Body RTV Silicone
- LOCTITE® SF 7649™ Primer
- LOCTITE® LB 8014™ Food Grade Anti-Seize
- LOCTITE® LB 8104™ Food Grade Grease
- LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser
- LOCTITE® LB 8632™ Clear High Performance Synthetic Grease
- LOCTITE® LB 8108™ High Performance Synthetic Grease
- LOCTITE® LB 8108™ High Performance Synthetic Grease (aerosol)

**STANDARD 51**

- Superflex® RTV, Silicone Adhesive Sealants Clear

**STANDARD 61**

- LOCTITE® 55™ Pipe Sealing Cord
- LOCTITE® 242™ Blue Threadlocker, Medium Strength
- LOCTITE® 243™ Blue Threadlocker, Medium Strength
- LOCTITE® 263™ Red Threadlocker, High Strength
- LOCTITE® 290™ Threadlocker, Wicking Grade
- LOCTITE® DRI 513™ Adhesive Sealant
- LOCTITE® DRI 513HV™ Thread Sealant
- LOCTITE® 518™ Flange Sealant
- LOCTITE® 561™ Pipe Sealant
- LOCTITE® 565™ Thread Sealant, Controlled Strength
- LOCTITE® 567™ Thread Sealant, High Temperature
- LOCTITE® 680™ Retaining Compound, Slip Fit/High Strength
- LOCTITE® SF 7649™ Primer
- LOCTITE® EA 3463™ 10 Minute Repair Epoxy
- LOCTITE® Nordbak® Brushable Ceramic Grey

**American Bureau of Shipping (ABS)**

- LOCTITE® 242™ Blue Threadlocker, Medium Strength
- LOCTITE® 262™ Threadlocker, Medium to High Strength
- LOCTITE® 404™ Instant Adhesive, General-Purpose
- LOCTITE® 567™ Thread Sealant, High Temperature
- LOCTITE® 587™ Blue, High Performance RTV Silicone Gasket Maker
- LOCTITE® 620™ Retaining Compound, Slip Fit/High Temperature
- LOCTITE® 680™ Retaining Compound, Slip Fit/High Strength
- LOCTITE® L PC 7202™ Marine Chocking
- LOCTITE® LB 8023™ Marine Grade Anti-Seize
- LOCTITE® SF 7625™ Rust Treatment

**Navy Environmental Health Center (NEHC)**

- LOCTITE® PC 3466™ Castable Aluminum Liquid
- LOCTITE® PC 7254™ Aluminum Putty
- LOCTITE® PC 3965™ Fast Set Steel Epoxy
- LOCTITE® EA 3473™ Fast Set Steel Putty
- LOCTITE® L PC 7202™ Marine Chocking
- LOCTITE® EA 3476™ Stainless Steel Putty
- LOCTITE® EA 3472™ Steel-Filled Castable Epoxy
- LOCTITE® EA 3471™ Steel Putty
- LOCTITE® EA 3478™ Superior Metal
- LOCTITE® PC 7222™ Wear-Resistant Putty
- LOCTITE® PC 7317™ Nordbak® Pneu-Wear
- LOCTITE® PC 7218™ Wearing Compound

**Military Specifications (Mil Spec)**

- LOCTITE® 220™ Threadlocker, Wicking Grade/Low Strength
- LOCTITE® 222MS™ Threadlocker, Low Strength/Small Screw
- LOCTITE® 242™ Blue Threadlocker, Medium Strength
- LOCTITE® 262™ Threadlocker, Medium to High Strength
- LOCTITE® 271™ Threadlocker, High Strength
- LOCTITE® 277™ Threadlocker, High Strength/Large Threads
- LOCTITE® 290™ Threadlocker, Wicking Grade
- LOCTITE® 571™ Thread Sealant, Pipe Sealant HVV
- LOCTITE® 609™ Retaining Compound, Press Fit/General-Purpose
- LOCTITE® 635™ Retaining Compound, Slip Fit/High Strength/Slow Cure
- LOCTITE® 640™ Retaining Compound, Press Fit/Medium Strength/High Temperature
- LOCTITE® 675™ Retaining Compound, Press Fit/Medium Strength
- LOCTITE® 712™ Accelerator
- LOCTITE® SI 5040™ RTV Silicone
- LOCTITE® SI 5045™ Flange Sealant
- LOCTITE® 7452™ Accelerator
- LOCTITE® SF 7471™ Primer
- LOCTITE® SF 7649™ Primer

**Military Specifications (Commercial Item Description)**

- LOCTITE® 404™ Instant Adhesive, General-Purpose
- LOCTITE® 406™ Instant Adhesive, Surface Insensitive
- LOCTITE® 414™ Instant Adhesive
- LOCTITE® 415™ Instant Adhesive
- LOCTITE® 416™ Instant Adhesive
- LOCTITE® 420™ Instant Adhesive
- LOCTITE® 422™ Instant Adhesive
- LOCTITE® 430™ Instant Adhesive
- LOCTITE® 444™ Instant Adhesive
- LOCTITE® 454™ Instant Adhesive
- LOCTITE® 493™ Instant Adhesive
- LOCTITE® 495™ Instant Adhesive
- LOCTITE® 496™ Instant Adhesive

**Federal Food, Drug & Cosmetic Act**

- 21 C.F.R. § 175.105**
- TECHNOMELT® 1942™ Hot Melt Adhesive

**21 C.F.R. § 175.300**

- LOCTITE® 2046™ Threadlocker

**Federal Institute for Materials Research and Testing, Germany (BAM)**

- LOCTITE® Thread Sealant for Oxygen Compatible Systems

**International Organization for Standardization**

**ISO 10993 COMPLIANT**

- LOCTITE® UK M-06FL™ Urethane Adhesive
- LOCTITE® UK M-11FL™ Adhesive
- LOCTITE® M-21HP™ Hysol® Medical Device Epoxy Adhesive
- LOCTITE® M-31GL™ Hysol® Medical Device Epoxy Adhesive
- LOCTITE® M-121HP™ Hysol® Medical Device Epoxy Adhesive
- LOCTITE® 431™ Instant Adhesive
- LOCTITE® 435™ Instant Adhesive
- LOCTITE® 713™ Medical Device Accelerator
- LOCTITE® AA 3201™ Light Cure Adhesive, Polycarbonate/Thermoplastics
- LOCTITE® AA 3211™ Light Cure Adhesive, Polycarbonate/Thermoplastics
- LOCTITE® AA 3301™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3311™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3321™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3341™ Light Cure Adhesive, Plasticized Substrates
- LOCTITE® AA 3345™ Light Cure Adhesive, Glass/Metal
- LOCTITE® AA 3381™ Light Cure Adhesive, Flexible/Plastics
- LOCTITE® AA 3552™ Light Cure Adhesive
- LOCTITE® AA 3553™ Light Cure Adhesive
- LOCTITE® AA 3554™ Light Cure Adhesive
- LOCTITE® AA 3555™ Light Cure Adhesive
- LOCTITE® AA 3556™ Light Cure Adhesive
- LOCTITE® AA 3921™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3922™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3924AC™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3926™ Light Cure Adhesive, Plastic/Metal
- LOCTITE® AA 3933™ Light Cure Adhesive
- LOCTITE® AA 3936™ Light Cure Adhesive
- LOCTITE® AA 3942™ Light Cure Adhesive, High Performance/Variou Substrates
- LOCTITE® AA 3943™ Light Cure Adhesive, High Performance/Variou Substrates
- LOCTITE® AA 3944™ Light Cure Adhesive
- LOCTITE® AA 3971™ Light Cure Adhesive, Plasticized Substrates
- LOCTITE® AA 3972™ Light Cure Adhesive, Plasticized Substrates
- LOCTITE® AA 3974™ Light Cure Adhesive
- LOCTITE® AA 3979™ Light Cure Adhesive
- LOCTITE® EA 3981™ Epoxy Adhesive, High Performance/Variou Substrates
- LOCTITE® EA 3982™ Epoxy Adhesive, High Performance/Variou Substrates
- LOCTITE® EA 3984™ Epoxy Adhesive, High Performance/Variou Substrates
- LOCTITE® 4011™ Medical Device Instant Adhesive
- LOCTITE® 4013™ Medical Device Instant Adhesive
- LOCTITE® 4014™ Medical Device Instant Adhesive
- LOCTITE® 4031™ Medical Device Instant Adhesive
- LOCTITE® 4061™ Medical Device Instant Adhesive
- LOCTITE® 4081™ Medical Device Instant Adhesive
- LOCTITE® 4161™ Medical Device Instant Adhesive
- LOCTITE® 4206™ Medical Device Instant Adhesive
- LOCTITE® 4304™ Light Cure Adhesive
- LOCTITE® 4305™ Light Cure Adhesive
- LOCTITE® 4306™ Light Cure Adhesive
- LOCTITE® 4307™ Light Cure Adhesive
- LOCTITE® 4310™ Light Cure Adhesive
- LOCTITE® 4311™ Light Cure Adhesive
- LOCTITE® 4541™ Medical Device Instant Adhesive
- LOCTITE® 4601™ Medical Device Instant Adhesive
- LOCTITE® 4851™ Medical Device Instant Adhesive



# Agency Listings

LOCTITE® 4861™ Medical Device Instant Adhesive  
 LOCTITE® 4981™ Medical Device Instant Adhesive  
 LOCTITE® SI 5055™ Silicone Adhesive Sealant  
 LOCTITE® SI 5056™ Silicone Adhesive Sealant  
 LOCTITE® SI 5240™ Medical Device Sealant  
 LOCTITE® SI 5248™ Medical Device Silicone Adhesive  
 LOCTITE® SF 7451™ Medical Device Accelerator  
 LOCTITE® SF 7701™ Medical Device Adhesive Primer

### UL Classified/Listed for U.S.

LOCTITE® 271™ Threadlocker, High Strength  
 LOCTITE® 515™ Flange Sealant  
 LOCTITE® 561™ Pipe Sealant  
 LOCTITE® 565™ Thread Sealant, Controlled Strength  
 LOCTITE® 567™ Thread Sealant, High Temperature  
 LOCTITE® SI 5091™ Silicone Potting Compound, High Adhesion  
 LOCTITE® 5600™ Silicone Sealant  
 LOCTITE® 5640™ Silicone Potting Compound  
 LOCTITE® PA 7809FR™ Hot Melt Adhesive, Polyamide  
 LOCTITE® SI 5606™ Silicone  
 LOCTITE® UK 3364™ Adhesive  
 LOCTITE® SI 5611F™ Silicone  
 LOCTITE® SI 5611S™ Silicone Potting Compound

LOCTITE® EA E-40EXP™ Epoxy  
 LOCTITE® SI 5604™ Silicone  
 TEROSON® MS 930™ Adhesive  
 TEROSON® MS 939™ Sealant

### ULC Classified for Canada

LOCTITE® 565™ Thread Sealant, Controlled Strength  
 LOCTITE® 567™ Thread Sealant, High Temperature

### CSA International

LOCTITE® 565™ Thread Sealant, Controlled Strength

## CANADIAN FOOD INSPECTION AGENCY (CFIA)

### Product with Letters of No Objection from the Canadian Food Inspection Agency for Food Plant use in Canada

LOCTITE® SF 712™ Accelerator (Isopropyl Alcohol)  
 LOCTITE® SF 770™ Primer Adhesion Promoter (Heptane)  
 LOCTITE® SF 7088™ Primer  
 LOCTITE® SF 7109™ Primer Adhesion Promoter (Water/Alcohol)  
 LOCTITE® SF 7113™ Accelerator (Heptane)  
 LOCTITE® SF 7452™ Accelerator (Acetone)  
 LOCTITE® SF 7471™ Primer (Acetone)  
 LOCTITE® SF 7649™ Primer (Acetone)  
 LOCTITE® 380™ Toughened  
 LOCTITE® 401™ Surface Insensitive  
 LOCTITE® 404™ Instant Adhesive  
 LOCTITE® 410™ Black Toughened  
 LOCTITE® 414™ Instant Adhesive  
 LOCTITE® 416™ Instant Adhesive  
 LOCTITE® 422™ Instant Adhesive  
 LOCTITE® 435™ Clear Surface Insensitive/Toughened  
 LOCTITE® 454™ Surface Insensitive Gel  
 LOCTITE® 4210™ Thermal Resistant  
 LOCTITE® EA 151™ Epoxy  
 LOCTITE® EA 608™ Epoxy  
 LOCTITE® EA 615™ Epoxy  
 LOCTITE® EA 907™ Epoxy  
 LOCTITE® EA 9340™ Epoxy  
 LOCTITE® EA E-00CL™ Epoxy  
 LOCTITE® EA E-00NS™ Epoxy  
 LOCTITE® EA E-05CL™ Epoxy  
 LOCTITE® EA E-120HP™ Epoxy  
 LOCTITE® EA E-20HP™ Epoxy  
 LOCTITE® EA E-20NS™ Epoxy  
 LOCTITE® EA E-30CL™ Epoxy  
 LOCTITE® EA E-40FL™ Epoxy  
 LOCTITE® EA E-60HP™ Epoxy  
 LOCTITE® EA E-60NC™ Epoxy  
 LOCTITE® EA E-90FL™ Epoxy  
 LOCTITE® MR 5412™ Contact Adhesive  
 LOCTITE® MR 5414™ Black Contact Adhesive  
 LOCTITE® UK U-05FL™ Urethane  
 LOCTITE® UK U-10FL™ Urethane  
 LOCTITE® SF 8220™ Flex Cleaner  
 LOCTITE® SF 137DA™ Pro Strength Varnish Remover  
 LOCTITE® SF 768™ Clean Up Solvent for Instant Adhesives (Nitromethane)  
 LOCTITE® SF 790™ Paint Stripper  
 LOCTITE® SF 7050™ Electronic Contact and Parts Cleaner  
 LOCTITE® SF 7601™ Equipment Flushing Solvent  
 LOCTITE® SF 7611™ Pro Strength Parts Cleaner  
 LOCTITE® SF 7629™ Non-Flammable Electrical Contact Cleaner  
 LOCTITE® SF 7631™ MC-Free Paint Stripper  
 LOCTITE® SF 7633™ Non-Chlorinated Parts Cleaner  
 LOCTITE® SF 7635™ Pro Strength Degreaser  
 LOCTITE® SF 7840™ Cleaner & Degreaser  
 LOCTITE® SF 23811™ Fragrance-Free Cleaner & Degreaser  
 TEROSON® VR 20 FL+ Cleaner  
 LOCTITE® SF 7693™ Cold Galvanizing Compound

LOCTITE® SF F720™ Black Tough Rubber Coating  
 LOCTITE® SF F720™ Blue Tough Rubber Coating  
 LOCTITE® SF F720™ Red Tough Rubber Coating  
 LOCTITE® SF F720™ Yellow Tough Rubber Coating  
 LOCTITE® SF 754™ Rust Treatment  
 LOCTITE® SF 5408™ Belt Dressing & Conditioner  
 LOCTITE® PC 7226™ Pneu Wear  
 LOCTITE® PC 7227™ Brushable Ceramic - Grey  
 LOCTITE® PC 7228™ Brushable Ceramic - White  
 LOCTITE® PC 7234™ High Temperature Brushable Ceramic  
 LOCTITE® PC 7319™ Chemical Resistant Coating  
 LOCTITE® PC 7455™ Fast Cure Pneu Wear  
 LOCTITE® PC 9660™ Maxi-Coat Rust Inhibitor (Aerosol)  
 LOCTITE® PC 9660™ Maxi-Coat Rust Inhibitor (Liquid)  
 LOCTITE® EA 445™ Fast Cure Epoxy Mixer Cups  
 LOCTITE® EA 3471™ Steel Putty  
 LOCTITE® EA 3472™ Steel Liquid  
 LOCTITE® EA 3473™ Fast Set Steel Putty  
 LOCTITE® EA 3476™ Stainless Steel Putty  
 LOCTITE® EA 3478™ Superior Metal  
 LOCTITE® EA 9131™ General Purpose Epoxy Mixer Cups  
 LOCTITE® EA 9480™ Underwater Repair Epoxy  
 LOCTITE® PC 3466™ Aluminum Liquid  
 LOCTITE® PC 3965™ Fast Set Steel Epoxy  
 LOCTITE® PC 7202™ Marine Chocking  
 LOCTITE® PC 7204™ High Performance Quartz  
 LOCTITE® PC 7222™ Wear Resistant Putty  
 LOCTITE® PC 7254™ Aluminum Putty  
 LOCTITE® PC 9410™ Magna-Crete  
 LOCTITE® PC 9416™ Floor Fill  
 LOCTITE® PC 9626™ Deep Pour GROUT  
 LOCTITE® 518™ Flange Sealant  
 LOCTITE® 548™ Gasket Eliminator  
 LOCTITE® MR GS1™ Gasket Sealant  
 LOCTITE® NS 5109™ High Temperature Gasket Sealant  
 LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker  
 LOCTITE® SI 593™ Black RTV Silicone Adhesive Sealant  
 LOCTITE® SI 594™ White RTV Silicone Adhesive Sealant  
 LOCTITE® SI 595™ Clear RTV Silicone Adhesive Sealant  
 LOCTITE® SI 596™ Red High Temp RTV Silicone Adhesive Sealant  
 LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker  
 LOCTITE® SI 5699™ Grey High Performance RTV Silicone Gasket Maker  
 LOCTITE® SI 5900™ Heavy Body RTV Silicone Flange Sealant  
 LOCTITE® SI 5900™ Instant Gasket  
 LOCTITE® SI 5905™ RTV Black Silicone Flange Sealant  
 LOCTITE® SI 5910™ RTV Silicone Flange Sealant  
 LOCTITE® SI 5920™ Copper High Temp RTV Silicone Gasket Maker  
 LOCTITE® UR 7001™ Urethane Sealant - Grey  
 LOCTITE® LB 771™ Nickel Grade Anti-Seize  
 LOCTITE® LB 8008 C5-A® Copper Based Anti-Seize  
 LOCTITE® LB 8014™ Food Grade Metal Free Anti-Seize

LOCTITE® LB 8034™ High Performance Synthetic Grease  
 LOCTITE® LB 8060™ Silver Grade Anti-Seize (Stick)  
 LOCTITE® LB 8065™ Copper Based Anti-Seize (Stick)  
 LOCTITE® LB 8070™ Heavy Duty Anti-Seize (Stick)  
 LOCTITE® LB 8104™ Food Grade Grease  
 LOCTITE® LB 8150™ Silver Grade Anti-Seize  
 LOCTITE® LB 8151™ Silver Grade Anti-Seize (Aerosol)  
 LOCTITE® LB 8632™ Clear High Performance Synthetic Grease  
 LOCTITE® LB 8801™ Silicone Lubricant  
 LOCTITE® 609™ Retaining Compound General Purpose  
 LOCTITE® 620™ Retaining Compound High Temperature  
 LOCTITE® 638™ Retaining Compound Maximum Strength  
 LOCTITE® 641™ Retaining Compound Controlled Strength  
 LOCTITE® 648™ Retaining Compound High Strength/Rapid Cure  
 LOCTITE® 660™ Retaining Compound  
 LOCTITE® 680™ Retaining Compound High Strength/High Viscosity  
 LOCTITE® 209818 Pipe Repair Kit  
 LOCTITE® O-Ring Making Kit  
 LOCTITE® PC 3967™ Stripped Thread Repair Kit  
 LOCTITE® 545™ Thread Sealant Hydraulic/Pneumatic Sealant  
 LOCTITE® 554™ Thread Sealant Refrigerant Sealant  
 LOCTITE® 561™ Thread Sealant (Stick)  
 LOCTITE® 564™ Thread Sealant Lower Strength  
 LOCTITE® 565™ Thread Sealant Controlled Strength  
 LOCTITE® 567™ Thread Sealant High Temperature  
 LOCTITE® 569™ Thread Sealant Hydraulic Sealant  
 LOCTITE® 592™ Thread Sealant Low Cure  
 LOCTITE® 5113™ Thread Sealant with PTFE  
 LOCTITE® 220™ Threadlocker Medium Strength/Wicking  
 LOCTITE® 222MS™ Threadlocker Low Strength/Small Screw/Mil-Spec.  
 LOCTITE® 242™ Threadlocker Medium Strength  
 LOCTITE® 243™ Threadlocker Oil Tolerant/Medium Strength  
 LOCTITE® 248™ Threadlocker Medium Strength  
 LOCTITE® 249™ Anaerobic Threadlocker Tape  
 LOCTITE® 262™ Threadlocker High Strength  
 LOCTITE® 263™ Threadlocker High Strength/Rapid Cure  
 LOCTITE® 266™ Threadlocker High Temperature/High Strength  
 LOCTITE® 268™ Threadlocker High Strength  
 LOCTITE® 271™ Threadlocker High Strength  
 LOCTITE® 272™ Threadlocker High Temperature/High Strength  
 LOCTITE® 290™ Threadlocker Wicking Grade/Medium Strength  
 LOCTITE® 2047™ Threadlocker High Lube  
 LOCTITE® 2620™ Threadlocker High Temp/High Strength  
 LOCTITE® 2760™ Threadlocker High Strength/Surface Insensitive

Your Source for  
**LOCTITE® PRODUCTS**  
**FOR DESIGN, ASSEMBLY,**  
**MANUFACTURING &**  
**MAINTENANCE**

**HAVE A QUESTION NOT ANSWERED HERE?**

Henkel Adhesive and Sealant Product Specialists are available to assist you with new product designs, or to help you re-engineer an existing application for improved performance and cost savings. They can also set up testing of your parts at the Henkel Customer Engineering Center. For application assistance, call 1-800-LOCTITE (562-8483) within Canada, call 1-800-263-5043; or, contact us through the web at [na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite).

# Technical Reference

## DUROMETER HARDNESS

Durometer hardness is a property presented on Technical Data Sheets that shows how hard the resin is in the cured state. A durometer gauge is the actual measuring device consisting of a small drill or blunt indenter point under pressure. Different measurement scales are used for different materials depending on how soft or hard the material. The following chart compares three different graduated measurement scales and relates hardness values to some common objects as well as LOCTITE® brand products.

SHORE A	SHORE D	ROCKWELL M	REFERENCE OBJECT	LOCTITE® PRODUCT
30	-	-	Art Gum Eraser	5140™
40	-	-	Pink Pearl Eraser	5900®
50	15	-	Rubber Stamp	-
60	-	-	Pencil Eraser	5699™
70	30	-	Rubber Heel	-
80	-	-	Rubber Sole	-
90	45	-	Ice Hockey Puck	366™
100	55	-	Pipe Stem	3106™
-	74	0	Textbook Cover	334™
-	78	32	Douglas Fir Plywood	-
-	82	63	-	E-60HP™
-	86	95	Hardwood Desktop	-
-	90	125	Glass or Formica	-

The higher the number within each scale, the harder the material. Shore readings are typically used for plastics. Shore A is for softer materials; Shore D is for harder materials. Rockwell M readings are typically used for metals.

## MATHEMATICAL CONVERSIONS

The following are some common conversions that might be helpful when using LOCTITE® products:

- 1 milliliter (ml) = 1 cubic centimeter (cc)
- 1,000 ml = 1 liter
- 29.5 ml = 1 fl. oz.
- 3.78 liters = 1 gallon
- 473 ml = 1 pint
- 454 grams (g) = 1 lb.
- 947 ml = 1 quart
- 1 kilogram (kg) = 2.2 lbs.
- Weight to Volume: grams ÷ specific gravity = cc (ml)
- Volume to Weight: cc (ml) x specific gravity = grams
- Density = specific gravity x 0.99823
- Centipoise (cP) = centistokes x density (at a given temperature)
- Temperature: degrees F - 32 x 0.556 = degrees C  
degrees C x 1.8 + 32 = degrees F
- Square Inches to Square Feet: ÷ by 144
- Square Feet to Square Inches: x by 144
- In./lbs. ÷ 12 = ft./lbs.
- Ft./lbs. x 12 = in./lbs.
- 16 in.-oz. = 1 in.-lb.
- 192 in.-oz. = 1 ft.-lb.

## AREA COVERAGE

### Flat Parts:

$$\text{Length} \times \text{Width} \times \text{Bondline Thickness} \times 16.4 = \text{cc/ml requirement per part}$$

### Non-threaded Cylindrical Parts:

$$\text{Diameter} \times \text{Engagement Length} \times \text{Bondline Thickness (on radius/per side)} \times 3.14 \times 16.4 = \text{cc/ml requirement per part}$$

### Potting/Encapsulating Applications:

$$\text{Area (3.14} \times \text{R}^2) \times \text{Potting Depth} \times 16.4 = \text{cc/ml requirement per part}$$

For no induced gap, make the bondline thickness figure 0.001 in.; 16.4 is a constant for converting cubic inches to cubic centimeters.





# Technical Reference

## SHELF LIFE

### What is the Henkel shelf life policy for LOCTITE® branded products?

The shelf life period for the majority of LOCTITE® branded products is indicated by the “use by” date on the package.

For optimal storage, maintain product at a temperature between 8°C (46°F) to 21°C (70°F). Storage below 8°C (46°F) or greater than 28°C (82°F) can adversely affect product properties. UNOPENED cyanoacrylate products must be stored under refrigerated conditions at 2°C (36°F) to 8°C (46°F). Storage below 2°C (36°F) or greater than 8°C (46°F) can adversely affect product properties. Unopened cyanoacrylate products should be brought to ambient temperature before the package is opened. Once opened, the product should be left at ambient temperature. Products requiring storage at conditions other than those specified here are labeled accordingly.

Material removed from containers may be contaminated during use. Do not return product to original containers. Henkel cannot assume responsibility for product that has been contaminated or stored under conditions other than as recommended. This policy supersedes all previous policies regarding shelf life and storage of LOCTITE® branded products.

Contact Customer Service at 1-800-LOCTITE (562-8483) if you need additional information.



## VISCOSITY

Viscosity is a product property associated with all LOCTITE® adhesive/sealants. Viscosity is defined as a measure of the resistance of a fluid to flow (usually through a specific orifice). A measure of this fluid “thickness” is expressed in centipoise values. The higher the number, the thicker the product. Thicker products are less flowable and, in most cases, will fill a larger gap if necessary. The following chart relates viscosity to some products we are all familiar with:

PRODUCT	APPROXIMATE VISCOSITY IN CENTIPOISE (cP)	LOCTITE® CYANOACRYLATES	LOCTITE® ANAEROBICS
Water at 70°C	1 to 5	408™	–
Blood	10 to 20	–	290™
Antifreeze	20	406™	–
Motor Oil SAE 10 or Corn Oil	50 to 100	401™	609™
Motor Oil SAE 30 or Maple Syrup	150 to 200	435™	272™
Motor Oil SAE 40 or Castor Oil	250 to 500	4203™	263™
Motor Oil SAE 60 or Glycerin	1,000 to 2,000	403™	243™
Corn Syrup or Honey	2,000 to 3,000	410™	635™
Blackstrap Molasses	5,000 to 10,000	411™	277™/620™
Chocolate Syrup	10,000 to 25,000	454™/455™	545™
Ketchup or Mustard	50,000 to 70,000	409™	–
Tomato Paste or Peanut Butter	500,000	–	567™
Shortening or Lard	1,000,000 to 2,000,000	–	660™
Caulking Compound	5,000,000 to 10,000,000	–	518™
Window Putty	100,000,000	–	–

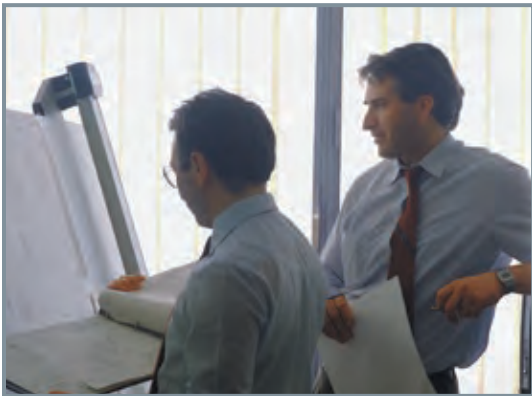
Some products are considered thixotropic. This describes materials that are gel-like at rest but fluid when agitated. Ketchup is a good example that exhibits this property. LOCTITE® thixotropic products include LOCTITE® 243™ and 263™ Threadlockers.

Your Source for  
**LOCTITE® PRODUCTS**  
**FOR DESIGN, ASSEMBLY,**  
**MANUFACTURING &**  
**MAINTENANCE**

## Engineering Services

Henkel Corporation offers complete engineering services for projects demanding expertise and support beyond the limits of our standard technical services. As a result, our engineers and scientists can quote the following value-added services:

- On-site engineering assistance
- Joint product development programs
- Prototype testing, fixture preparation and consultation
- Contract lab services and testing
- Custom formulations



In today's volatile and fluid market landscape, a manufacturer's survival and success are directly related to its technical capability. Rapidly emerging, innovative processes and materials mandate an unprecedented breadth and depth of engineering savvy. Not every company can house the equipment and engineering staff necessary to compete in today's marketplace.

### **THE ENGINEERING SERVICES GROUP OF HENKEL UNDERSTANDS THE NECESSITY OF PARTNERING WITH MANUFACTURERS AND SHARING THIS EXPERTISE WITH THE INDUSTRY THROUGH COST-EFFECTIVE, CUSTOM-TAILORED PROGRAMS.**

These programs range from specialized field teams that evaluate specifications and in-line process requirements, to the development of adhesives, and the design, construction and implementation of dispensing and curing systems. Whether you need competent recommendations on chemical properties, or a full-blown, turnkey process line, the engineering services group of Henkel can provide solutions through the seamless integration of mechanical, electrical, industrial manufacturing, and chemical engineering teams.

The Application Engineering Lab plays host to a battery of testing equipment. Here, experienced technicians conduct a multitude of tests, such as surface contamination, deforming, fixture, tensile and peel strengths.

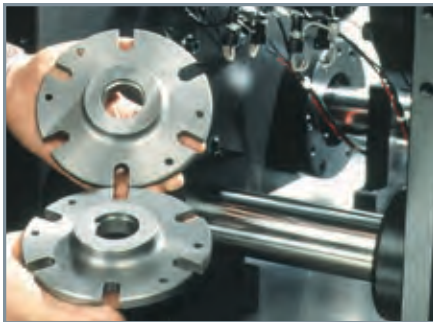
#### **TAKE ADVANTAGE OF OUR RESOURCES**

To access these and other Engineering Services, contact our Adhesive and Sealant Specialists at **1-800-LOCTITE (562-8483)**. Immediate technical assistance is available from 8 a.m. to 5 p.m. ET, Monday through Friday.

**STRAIGHT FROM** *The Source*



# Engineering Services



## **CUSTOM TEST FIXTURES AND PROTOCOLS CAN BE DEVELOPED TO MEET SPECIFIC END-USE REQUIREMENTS**

Crucial in the engineering process is determining whether the customer's application and the adhesive criteria can withstand the gauntlet of rigorous strength tests performed by Henkel. Custom test fixtures and protocols can be developed to meet specific end-use requirements.



## **OUR PROTOTYPING CAPABILITY PROVIDES VALUABLE DATA REGARDING THE FEASIBILITY OF FULL-SCALE MANUFACTURE**

Engineers specializing in LOCTITE® products are frequently called upon to provide process simulations of customer parts on short production runs, such as gasketing. Our prototyping capability provides valuable data regarding the feasibility of full-scale manufacture.



## **MANUFACTURERS CAN GAIN CONFIDENCE IN THE DURABILITY AND LONGEVITY OF AN ASSEMBLY IN THE FIELD**

Our engineers can also create environmental conditions that simulate, and even exceed, the most severe conditions. With heat aging, salt fog, humidity and thermal cycling chambers, our engineers can provide manufacturers with confidence in the durability and longevity of an assembly in the field.

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**MANUFACTURING &**  
**MAINTENANCE**



# OEM Training Services

- Educate your engineers on how to cut costs, improve quality and increase production through the integration of adhesives into the new product design process.
- Each instructional event touches on the wide array of LOCTITE® product solutions including adhesives and sealants, dispensing and curing equipment, as well as the unmatched technical support of our product specialists.

**PRODUCT WORKSHOPS**

### LOCTITE® OEM Workshop

Full- or half-day on-site product training customized to address specific design needs at your manufacturing location.

### LOCTITE® OEM Customer Training School

Full- or half-day off-site training designed specifically for design, process, material and manufacturing engineers responsible for assemblies involving the use of adhesives.

**INDUSTRY WORKSHOPS**

### Designing Pumps with Adhesives Seminar

Two- to four-hour training on adhesives, coatings, lubricants and the performance improvements that their implementation provides to pump manufacturers.

### Designing Electric Motors with Adhesives Seminar

This half-day seminar reviews in detail the many ways motor manufacturers are using adhesives and sealants to improve performance, reduce costs and enhance manufacturability. The seminar includes many hands-on demonstrations and real-world case histories.

### Medical Advanced Workshop

A four- to seven-hour off-site program providing solutions to medical device manufacturers on design and assembly challenges. The workshop is designed specifically for material, manufacturing and design engineers, and includes hands-on demonstrations of adhesives and equipment.

### Medical Technology On-Site Seminar

Select from a menu of seven of the most requested medical device adhesive topics or create a customized seminar to meet your specific requirements. Courses are conducted at your location, and include instruction, hands-on demonstrations, samples, and technical guides.

**HENKEL OFFERS MANY OTHER WORKSHOPS, WHICH CAN BE CUSTOMIZED TO PROVIDE LOCTITE TRAINING FOR VARIOUS INDUSTRIES AND DEVICES.**

**SERVICES**

### Plant Survey

A detailed manufacturing process evaluation performed by a Henkel Adhesive and Sealant Specialist to identify and document potential cost savings and process improvements.



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**MAINTENANCE**

# MRO Training Services

- All of the following services will teach your maintenance personnel how to save time, reduce costs, improve safety in your plant, and increase the reliability of your equipment.

PRODUCT WORKSHOPS	<p><b>LOCTITE® Maintenance Workshop</b></p> <p>Two hours of on-site product training customized to your facility's needs. Optional cost documentation process available.</p> <p><b>LOCTITE® Pump Rebuild Workshop</b></p> <p>Two to four hours of product training on how LOCTITE® products can improve pump reliability and reduce common failures. Includes pump rebuild manual.</p> <p><b>LOCTITE® Maintenance Customer Training School</b></p> <p>Full- or half-day product training with review of common maintenance challenges and the appropriate LOCTITE® product solutions.</p>
	<p><b>Manufacturing Reliability Training (MRT)</b></p> <p>Four hours of CEU-accredited training on mechanical basics, failure fundamentals and the role of machinery adhesives in equipment reliability. Includes training manual and product tool kit.</p>
	<p><b>Documented Cost Savings</b></p> <p>Offers a process for validating and documenting cost savings realized as a result of LOCTITE Workshops or Maintenance Reliability Training.</p> <p><b>Engineering Assistance</b></p> <p>Henkel offers many other services, including air leak surveys, pump rebuild assistance and flooring application assistance. In addition, Henkel offers an optional cost documentation process with the MRT programs and Maintenance Workshop listed above.</p>

# Index by Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
AN2023N01	LOCTITE® Standard Nozzle Adapter/Check Valve/Jam Nut	18, 108
00101	101™ Quick Service Toolkit	150
00112	LOCTITE® O-Ring Making Kit - Standard	149, 150
00144	LOCTITE® AA 312™ Structural Adhesive	35
03333	LOCTITE® AA 312™ Structural Adhesive	35
12224	LOCTITE® AA 366™ Light Cure Adhesive	22
12292	LOCTITE® 444™ Instant Adhesive	10
12294	LOCTITE® 444™ Instant Adhesive	10
12695	LOCTITE® 7090™ Activator	71, 126, 138, 146
17412	LOCTITE® SI 5091™ Silicone Potting Compound	21, 103
17421	LOCTITE® 455™ Instant Adhesive	7, 9
17430	LOCTITE® 5127™ Flexible Anaerobic Gasket Flange Sealant	71
17528	LOCTITE® SI 5083™ Silicone Adhesive Sealant	21
17529	LOCTITE® 426™ Instant Adhesive	9
17635	LOCTITE® SI 5083™ Silicone Adhesive Sealant	21
17944	LOCTITE® AA 3491™ Light Cure Adhesive	22
18013	LOCTITE® 4013™ Instant Adhesive	159
18014	LOCTITE® 4014™ Instant Adhesive	159
18030	LOCTITE® 409™ Instant Adhesive	10
18074	LOCTITE® SI 5091™ Silicone Potting Compound, High Adhesion	21
18390	LOCTITE® 712™ Accelerator	10
18396	LOCTITE® SF 770™ Primer	7, 10
18397	LOCTITE® SF 770™ Primer	7, 10
18398	LOCTITE® 426™ Instant Adhesive	9
18490	LOCTITE® SF 7452™ Accelerator	8, 10
18495	LOCTITE® SI 5950™ Flange Sealant	77
18575	LOCTITE® SF 7452™ Accelerator	8, 10
18576	LOCTITE® SF 7452™ Accelerator	8, 10
18580	LOCTITE® SF 7452™ Accelerator	8, 10
18581	LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	73, 75
18582	LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	73, 75
18583	LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	73, 75
18607	LOCTITE® 232™ Retaining Compound	125
18636	LOCTITE® SF 712™ Accelerator	10
18637	LOCTITE® SF 7452™ Accelerator	8, 10
18680	LOCTITE® 4011™ Instant Adhesive	157, 159
18681	LOCTITE® 4011™ Instant Adhesive	157, 159
18682	LOCTITE® 4031™ Instant Adhesive	157, 159
18683	LOCTITE® 4031™ Instant Adhesive	157, 159
18686	LOCTITE® 4061™ Instant Adhesive	159
18687	LOCTITE® 4031™ Instant Adhesive	159
18688	LOCTITE® 4081™ Instant Adhesive	159
18690	LOCTITE® 4541™ Instant Adhesive	157, 159
18691	LOCTITE® 4541™ Instant Adhesive	157, 159
18692	LOCTITE® 4601™ Instant Adhesive	157, 159
18693	LOCTITE® 4601™ Instant Adhesive	157, 159
18694	LOCTITE® 4981™ Instant Adhesive	159
18695	LOCTITE® 4981™ Instant Adhesive	159
18718	LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	73, 75
18861	LOCTITE® SF 7387™ Activator	35
18862	LOCTITE® SF 7387™ Activator	35
19163	LOCTITE® SI 5109™ RD Tile Bond Red High Temp RTV Silicone Adhesive Sealant	74, 76
19266	LOCTITE® SF 7649™ Primer	35, 71, 126, 138, 146
19267	LOCTITE® SF 7471™ Primer	71, 126, 138, 146
19268	LOCTITE® SF 7471™ Primer	71, 126, 138, 146
19269	LOCTITE® SF 7649™ Primer	35, 71, 126, 138, 146
19368	LOCTITE® 7090™ Activator	71, 126, 138, 146
19605	LOCTITE® SF 7113™ Accelerator	10
19606	LOCTITE® SF 7113™ Accelerator	10
19727	LOCTITE® AA 3201™ Light Cure Adhesive	155
19728	LOCTITE® AA 3201™ Light Cure Adhesive	155
19730	LOCTITE® AA 3211™ Light Cure Adhesive	155
19731	LOCTITE® AA 3211™ Light Cure Adhesive	155

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
19733	LOCTITE® AA 3301™ Light Cure Adhesive	155
19734	LOCTITE® AA 3301™ Light Cure Adhesive	155
19736	LOCTITE® AA 3311™ Light Cure Adhesive	155
19737	LOCTITE® AA 3311™ Light Cure Adhesive	155
19739	LOCTITE® AA 3321™ Light Cure Adhesive	155
19740	LOCTITE® AA 3321™ Light Cure Adhesive	155
19743	LOCTITE® 4161™ Instant Adhesive	159
19744	LOCTITE® 4161™ Instant Adhesive	159
19822	LOCTITE® SF 7380™ Activator	35
19824	LOCTITE® SF 7380™ Activator	35
19862	LOCTITE® AA 3100™ Light Cure Adhesive	22
19886	LOCTITE® SF 7701™ Primer	158, 159
19887	LOCTITE® SF 7701™ Primer	158, 159
19889	LOCTITE® SF 713™ Accelerator	158, 159
19890	LOCTITE® 7451™ Accelerator	159
19907	LOCTITE® SF 7380™ Activator	35
20172	LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser	126, 130, 131
20176	LOCTITE® SI 5900™ Flange Sealant	73, 75
20177	LOCTITE® SI 5900™ Flange Sealant	73, 75
20178	LOCTITE® SI 5900™ Flange Sealant	73, 75
20170	LOCTITE® SI 5999™ Flange Sealant	75
20268	LOCTITE® 4013™ Instant Adhesive	159
20269	LOCTITE® 4014™ Instant Adhesive	159
20352	LOCTITE® SF 712™ Accelerator	10
20419	LOCTITE® 444™ Instant Adhesive	10
20420	LOCTITE® 382™ Instant Adhesive	10
21088	LOCTITE® SF 7387™ Activator	35
21347	LOCTITE® SF 7649™ Primer	35, 71, 126, 138, 146
21348	LOCTITE® SF 7649™ Primer	35, 71, 126, 138, 146
21349	LOCTITE® SF 7075™ Activator	35
21362	LOCTITE® AA 3751™ Light Cure Adhesive	22
21363	LOCTITE® AA 3751™ Light Cure Adhesive	22
21425	LOCTITE® EA 445™ Fast Cure Epoxy Mixer Cups	119
21426	LOCTITE® EA 445™ Fast Cure Epoxy Mixer Cups	119
21434	LOCTITE® 277™ Threadlocker	138
21440	LOCTITE® 603™ Retaining Compound	125
21441	LOCTITE® 603™ Retaining Compound	125
21442	LOCTITE® 603™ Retaining Compound	125
21458	LOCTITE® 641™ Retaining Compound	124, 125
21463	LOCTITE® 222™ Threadlocker	137
21464	LOCTITE® 222™ Threadlocker	137
21472	LOCTITE® SI 5920™ Copper, High Performance RTV Silicone Gasket Maker	75
21525	LOCTITE® 509™ Flange Sealant	71
21744	LOCTITE® SI 5999™ Flange Sealant	75
21746	LOCTITE® SI 5910™ Flange Sealant RTV Silicone	75
21747	LOCTITE® SI 5910™ Flange Sealant RTV Silicone	75
21748	LOCTITE® SI 5910™ Flange Sealant RTV Silicone	75
21920	LOCTITE® 4541™ Instant Adhesive	157, 159
21921	LOCTITE® 426™ Instant Adhesive	9
21925	LOCTITE® 454™ Instant Adhesive	7, 9
22041	LOCTITE® 220™ Threadlocker	138
22205	LOCTITE® 222MS™ Threadlocker	135, 138
22221	LOCTITE® 222MS™ Threadlocker	135, 138
22231	LOCTITE® 222MS™ Threadlocker	135, 138
22241	LOCTITE® 222MS™ Threadlocker	135, 138
22309	LOCTITE® 455™ Instant Adhesive	7, 9
22355	LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser	126, 130, 131
22440	LOCTITE® SF 7109™ II Accelerator	10
22477	LOCTITE® SF 7471™ Primer T™	71, 126, 138, 146
22671	LOCTITE® SF 7075™ Activator	35
23034	LOCTITE® SF 7109™ II Accelerator	10
23440	LOCTITE® AA 3341™ Light Cure Adhesive	154, 155
23691	LOCTITE® AA 3103™ Light Cure Adhesive	22
23692	LOCTITE® AA 3103™ Light Cure Adhesive	22
23694	LOCTITE® AA 3104™ Light Cure Adhesive	22
23695	LOCTITE® AA 3105™ Light Cure Adhesive	22

# CAN'T FIND A LOCTITE® PRODUCT?

CONTACT HENKEL CUSTOMER SERVICE AT 1.800.LOCTITE (1.800.562.8483)

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
23696	LOCTITE® AA 3105™ Light Cure Adhesive	22	29318	LOCTITE® EA E-20HP™ Adhesive	42, 43
23697	LOCTITE® AA 3106™ Light Cure Adhesive	22	29319	LOCTITE® E-60HP™ Hysol® Epoxy Adhesive	42, 43
23698	LOCTITE® AA 3106™ Light Cure Adhesive	22	29321	LOCTITE® EA E-60HP™ Adhesive	42, 43
23792	LOCTITE® AA 3341™ Light Cure Adhesive	154, 155	29322	LOCTITE® EA E-60HP™ Adhesive	42, 43
24205	LOCTITE® 242™ Blue Threadlocker	138	29323	LOCTITE® EA E-60HP™ Adhesive	42, 43
24221	LOCTITE® 242™ Blue Threadlocker	138	29324	LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	41, 43, 98
24231	LOCTITE® 242™ Blue Threadlocker	138	29325	LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	41, 43, 98
24241	LOCTITE® 242™ Blue Threadlocker	138	29326	LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	41, 43, 98
24243	LOCTITE® 242™ Blue Threadlocker	138	29327	LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	41, 43
25523	LOCTITE® 2432™ Threadlocker	137	29328	LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	41, 43
25524	LOCTITE® 5772™ Thread Sealant	145	29329	LOCTITE® EA E-30CL™ Adhesive, Glass Bonder	41, 43, 98
25882	LOCTITE® 554™ Thread Sealant	145	29330	LOCTITE® EA E-30CL™ Adhesive, Glass Bonder	41, 43, 98
26205	LOCTITE® 262™ Threadlocker	138	29331	LOCTITE® EA E-30CL™ Adhesive, Glass Bonder	41, 43, 98
26221	LOCTITE® 262™ Threadlocker	138	29334	LOCTITE® EA E-20NS™ Adhesive	43
26231	LOCTITE® 262™ Threadlocker	138	29335	LOCTITE® EA E-20NS™ Adhesive	43
26241	LOCTITE® 262™ Threadlocker	138	29336	LOCTITE® EA E-20NS™ Adhesive	43
26243	LOCTITE® 262™ Threadlocker	138	29339	LOCTITE® E-214HP™ Adhesive	42, 44
26325	LOCTITE® 4204™ Instant Adhesive	10	29340	LOCTITE® E-214HP™ Adhesive	42, 44
27105	LOCTITE® 271™ Threadlocker	138	29348	LOCTITE® UK U-05FL™ Adhesive	47, 48
27121	LOCTITE® 271™ Threadlocker	138	29349	LOCTITE® UK U-05FL™ Adhesive	47, 48
27131	LOCTITE® 271™ Threadlocker	138	29350	LOCTITE® UK U-05FL™ Adhesive	47, 48
27141	LOCTITE® 271™ Threadlocker	138	29353	LOCTITE® EA E-120HP™ Adhesive	42, 43
27143	LOCTITE® 271™ Threadlocker	138	29354	LOCTITE® EA E-120HP™ Adhesive	42, 43
27240	LOCTITE® 272™ Threadlocker	138	29355	LOCTITE® EA E-120HP™ Adhesive	42, 43
27270	LOCTITE® 272™ Threadlocker	138	29356	LOCTITE® EA E-120HP™ Adhesive	42, 43
27285	LOCTITE® 272™ Threadlocker	138	29357	LOCTITE® EA E-120HP™ Adhesive	42, 43
27731	LOCTITE® 277™ Threadlocker	138	29460	LOCTITE® UK U-09FL™ Adhesive	47, 48
27741	LOCTITE® 277™ Threadlocker	138	29462	LOCTITE® UK U-09FL™ Adhesive	47, 48
27743	LOCTITE® 277™ Threadlocker	138	29487	LOCTITE® AA 3494™ Light Cure Adhesive	19, 22
27858	LOCTITE® SF 7951™ Primer	10	29513	LOCTITE® 246™ Threadlocker	137
27863	LOCTITE® 232™ Retaining Compound	125	29514	LOCTITE® 246™ Threadlocker	137
28027	LOCTITE® 4203™ Instant Adhesive	10	29515	LOCTITE® 246™ Threadlocker	137
28028	LOCTITE® 4205™ Instant Adhesive	10	29709	LOCTITE® LB 8213™ Krytox® RFE High Performance Lubricant	88, 89
28029	LOCTITE® 4205™ Instant Adhesive	10	29710	LOCTITE® LB 8029™ Krytox® RFE Lubricant	88, 89
28298	LOCTITE® SI 5999™ Flange Sealant	75	29711	LOCTITE® LB 8213™ Krytox® RFE High Performance Lubricant	88, 89
28366	LOCTITE® AA 3491™ Light Cure Adhesive	22	30138	LOCTITE® LB 8211™ Krytox® RFE Dry Film Lubricant	87, 89
28400	LOCTITE® AA 3108™ Light Cure Adhesive	22	30220	LOCTITE® AA 3525™ Light Cure Adhesive	19, 22
28465	LOCTITE® AA 3108™ Light Cure Adhesive	22	30221	LOCTITE® AA 3525™ Light Cure Adhesive	19, 22
28466	LOCTITE® AA 3107™ Light Cure Adhesive	19, 22	30509	LOCTITE® SI 5900™ Instant Gasket	73, 75
28628	LOCTITE® 4206™ Instant Adhesive	158, 159	30510	LOCTITE® MR GS1™ Gasket Sealant	71
28654	LOCTITE® PC 3967™ Stripped Thread Repair Kit	149, 150	30512	LOCTITE® MR GS1™ Gasket Sealant	71
28802	LOCTITE® 641™ Retaining Compound	124, 125	30513	LOCTITE® MR GS2™ Gasket Sealant	71
29005	LOCTITE® 290™ Threadlocker	136, 137, 138	30514	LOCTITE® MR GS2™ Gasket Sealant	71
29021	LOCTITE® 290™ Threadlocker	136, 137, 138	30515	LOCTITE® MR GS2™ Gasket Sealant	71
29031	LOCTITE® 290™ Threadlocker	136, 137, 138	30518	LOCTITE® SI 5015™ Blue Adhesive Sealant	76
29041	LOCTITE® 290™ Threadlocker	136, 137, 138	30526	LOCTITE® MR 5009™ Hi-Tack Gasket Sealant	71
29043	LOCTITE® 290™ Threadlocker	136, 137, 138	30527	LOCTITE® SF 5408™ Belt Dressing & Conditioner	52, 53
29287	LOCTITE® SI 5950™ Flange Sealant	77	30529	LOCTITE® SF 137DA™ Pro Strength Varnish Remover	131
29289	LOCTITE® EA E-00CL™ Adhesive	44	30530	LB 8042™ White Lithium Grease	90
29290	LOCTITE® EA E-00CL™ Adhesive	44	30533	LOCTITE® SI 5015™ Blue Silicone Adhesive	76
29291	LOCTITE® EA E-00CL™ Adhesive	44	30535	LOCTITE® MR 7657™ Copper Gasket Adhesive	71
29294	LOCTITE® EA E-00NS™ Adhesive	41, 44	30536	LOCTITE® LB 8423™ Dielectric Grease	90
29295	LOCTITE® EA E-00NS™ Adhesive	41, 44	30537	LOCTITE® MR 5412™ Contact Adhesive	27, 28
29296	LOCTITE® EA E-00NS™ Adhesive	41, 44	30538	LOCTITE® SF 7607™ Heavy-Duty Rubberized Undercoating	51, 53
29299	LOCTITE® EA E-05CL™ Adhesive	41, 44	30539	LOCTITE® SF 754™ Rust Treatment	52, 53
29301	LOCTITE® EA E-05CL™ Adhesive	41, 44	30540	LOCTITE® MR 5414™ Black Contact Adhesive	27, 28
29302	LOCTITE® EA E-05CL™ Adhesive	41, 44	30542	LOCTITE® SI 5920™ Copper, High Performance RTV Silicone Gasket Maker	75
29303	LOCTITE® EA E-05CL™ Adhesive	41, 44	30544	LOCTITE® MR 5416™ All-Purpose Spray Adhesive	27, 28
29304	LOCTITE® EA E-40FL™ Adhesive	43	30545	LOCTITE® SF 7633™ Non-Chlorinated Parts Cleaner	131
29305	LOCTITE® EA E-40FL™ Adhesive	43	30548	LOCTITE® SF 7611™ Pro Strength Parts Cleaner	130, 131
29306	LOCTITE® EA E-40FL™ Adhesive	43	30558	LOCTITE® High Temperature Gasket Maker (Solvent-Based)	71
29309	LOCTITE® EA E-90FL™ Adhesive	42, 43	30560	LOCTITE® SI 5015™ Blue Silicone Adhesive	76
29311	LOCTITE® EA E-90FL™ Adhesive	42, 43	30671	LOCTITE® EA M-21HP™ Epoxy Adhesive	162
29314	LOCTITE® EA E-20HP™ Adhesive	42, 43	30673	LOCTITE® EA M-31CL™ Epoxy Adhesive	161, 162
29315	LOCTITE® EA E-20HP™ Adhesive	42, 43	30674	LOCTITE® EA M-31CL™ Epoxy Adhesive	161, 162
29316	LOCTITE® EA E-20HP™ Adhesive	42, 43	30676	LOCTITE® UK M-06FL™ Urethane Adhesive	162
29317	LOCTITE® EA E-20HP™ Adhesive	42, 43			

# Index by Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
30680	LOCTITE® EA M-121HP™ Epoxy Adhesive	161, 162
30756	LOCTITE® AA 3526™ Light Cure Adhesive	22
30764	LOCTITE® AA 3526™ Light Cure Adhesive	22
30765	LOCTITE® AA 3494™ Light Cure Adhesive	19, 22
31064	LOCTITE® EA 3336™ Light Cure Adhesive	21
31065	LOCTITE® EA 3336™ Light Cure Adhesive	21
31279	TECHNOMELT® PUR 3631™ Hot Melt Adhesive	14, 15
31291	TECHNOMELT® PUR 3631™ Hot Melt Adhesive	14, 15
31361	LOCTITE® LB 8029™ Krytox® RFE Lubricant	88, 89
32037	LOCTITE® AA 3936™ Light Cure Adhesive	155
32040	LOCTITE® AA 3933™ Light Cure Adhesive	155
32047	LOCTITE® AA 3922™ Light Cure Adhesive	20, 22, 153, 155
32083	LOCTITE® AA 3922™ Light Cure Adhesive	20, 22, 153, 155
32304	LOCTITE® AA 3936™ Light Cure Adhesive	155
32429	LOCTITE® 545™ Thread Sealant	143, 145
32430	LOCTITE® AA 324™ Structural Adhesive	35
32490	LOCTITE® AA 324™ Structural Adhesive	35
32530	LOCTITE® AA 325™ Structural Adhesive	35
32586	LOCTITE® AA 325™ Structural Adhesive	35
32629	LOCTITE® AA 326™ Adhesive	34, 35
32685	LOCTITE® AA 326™ Adhesive	34, 35
33201	LOCTITE® AA 332™ Adhesive	34, 35
33275	LOCTITE® AA 332™ Adhesive	34, 35
33290	LOCTITE® AA 332™ Adhesive	34, 35
33403	LOCTITE® AA 334™ Adhesive	33, 35
33470	LOCTITE® AA 334™ Structural Adhesive	33, 35
33510	LOCTITE® PC 9422™ Super Grout	65
34018	LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	69, 75
34026	LOCTITE® LB 8023™	84, 85
34347	LOCTITE® SI 5964™ Cure-in-Place Gasket	77
34395	LOCTITE® LB 8023™	84, 85
34517	LOCTITE® LB 8036™ White Hi-Temp Anti-Seize	85
34518	LOCTITE® LB 8036™ White Hi-Temp Anti-Seize	85
34731	LOCTITE® EA 3985™ Adhesive	44
34931	LOCTITE® AA 349™ Light Cure Adhesive	22
34943	LOCTITE® SF 7617™ Industrial Hand Wipes	86, 130, 131
34944	LOCTITE® SF 7617™ Industrial Hand Wipes	86, 130, 131
34979	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34980	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34982	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34983	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34985	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34988	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34989	LOCTITE® SF F720™ Tough Rubber Coating	51, 53
34990	LOCTITE® AA 349™ Light Cure Adhesive	22
35082	LOCTITE® 55™ White Coated Cord	146
35173	LOCTITE® SI 3407™ Cure-in-Place Gasket	77
35230	LOCTITE® SI 5970™ Flange Sealant	74, 75
35241	LOCTITE® AA 352™ Light Cure Adhesive	22
35286	LOCTITE® AA 352™ Light Cure Adhesive	22
35939	LOCTITE® AA H8000™ Adhesive	37, 39
35940	LOCTITE® AA H8000™ Adhesive Activator	37, 39
36160	LOCTITE® AA H8000™ Adhesive, Dual Cartridge	37, 39
36294	LOCTITE® AA 3972™ Light Cure Adhesive	153, 155
36295	LOCTITE® AA 3972™ Light Cure Adhesive	153, 155
36331	LOCTITE® AA 363™ Light Cure Adhesive	22
36334	LOCTITE® PC 7257™ Activator	64, 65
36390	LOCTITE® AA 363™ Light Cure Adhesive	22
36478	LOCTITE® AA 3943™ Light Cure Adhesive	155
36480	LOCTITE® AA 3943™ Light Cure Adhesive	155
36481	LOCTITE® AA 3942™ Light Cure Adhesive	153, 155
36483	LOCTITE® AA 3942™ Light Cure Adhesive	153, 155
36484	LOCTITE® AA 3921™ Light Cure Adhesive	155
36485	LOCTITE® AA 3921™ Light Cure Adhesive	155
36487	LOCTITE® AA 3921™ Light Cure Adhesive	155
36492	LOCTITE® AA 3926™ Light Cure Adhesive	20, 22, 153, 155

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
36493	LOCTITE® AA 3926™ Light Cure Adhesive	20, 22, 153, 155
36631	LOCTITE® AA 366™ Light Cure Adhesive	22
36767	LOCTITE® EA 3982™ Adhesive	44
36768	LOCTITE® EA 3984™ Epoxy Adhesive	161, 162
36780	LOCTITE® LB 8034™ High Performance Synthetic Grease	89
36781	LOCTITE® LB 8034™ High Performance Synthetic Grease	88, 89
36782	LOCTITE® LB 8034™ High Performance Synthetic Grease	88, 89
36783	LOCTITE® LB 8034™ High Performance Synthetic Grease	88, 89
36792	LOCTITE® AA 3971™ Light Cure Adhesive	155
36805	LOCTITE® AA 3971™ Light Cure Adhesive	155
36923	LOCTITE® SI 5905™ Flange Sealant RTV Silicone	75
37061	LOCTITE® LB 8034™ High Performance Synthetic Grease	88, 89
37087	LOCTITE® 248™ Blue Threadlocker	135, 137
37127	LOCTITE® 561™ Pipe Sealant with PTFE	144, 145
37229	LOCTITE® LB 8008™	83, 85
37230	LOCTITE® LB 8065™ C5-A® Copper-Based Anti-Seize	83, 85
37312	LOCTITE® MR 5426™ Maximum Strength Headliner Adhesive	27, 28
37316	LOCTITE® L PC 7202™ Marine Chocking	65
37388	LOCTITE® 220™ Threadlocker	138
37439	LOCTITE® 4306™ Light Cure Adhesive	9, 21, 159
37442	LOCTITE® 4306™ Light Cure Adhesive	9, 21, 159
37535	LOCTITE® LB 8423™ Dielectric Grease	90
37684	LOCTITE® 248™ Blue Threadlocker	135, 137
37685	LOCTITE® 268™ Threadlocker – High Strength	136, 137
37686	LOCTITE® 268™ Threadlocker – High Strength	136, 137
37708	LOCTITE® 4861™ Instant Adhesive	159
37711	LOCTITE® 4861™ Instant Adhesive	159
37732	LOCTITE® 4851™ Instant Adhesive	159
37733	LOCTITE® 4851™ Instant Adhesive	159
38004	LOCTITE® 380™ Instant Adhesive	9
38050	LOCTITE® 380™ Instant Adhesive	9
38061	LOCTITE® 380™ Instant Adhesive	9
38181	LOCTITE® LB 8150™	83, 85
38210	LOCTITE® AA 3944™ Light Cure Adhesive	155
38212	LOCTITE® AA 3944™ Light Cure Adhesive	155
38240	LOCTITE® 382™ Instant Adhesive	10
38261	LOCTITE® 382™ Instant Adhesive	10
38535	LOCTITE® SI 5905™ Flange Sealant RTV Silicone	75
38584	LOCTITE® LB 8008™	83, 85
38588	LOCTITE® UK U-09LV™ Adhesive	48
38761	LOCTITE® AA H8600™ Adhesive	37, 39
38956	LOCTITE® Toolbox	150
39156	LOCTITE® 534™ Hi-Tack Gasket Dressing	70, 71
39186	LOCTITE® 220™ Threadlocker	138
39202	LOCTITE® 454™ Instant Adhesive	10
39210	LOCTITE® AA 5810A™ Adhesive Sealant	73, 76
39211	LOCTITE® AA 5810A™ Adhesive Sealant	73, 76
39246	LOCTITE® SI 5970™ Flange Sealant	74, 75
39250	LOCTITE® AA 392™ Adhesive	33, 35
39275	LOCTITE® AA 392™ Adhesive	33, 35
39280	LOCTITE® AA 392™ Adhesive	33, 35
39341	LOCTITE® LB 8632™ Clear High Performance Synthetic Grease	88, 89, 90
39342	LOCTITE® LB 8632™ Clear High Performance Synthetic Grease	88, 89, 90
39366	LOCTITE® PC 9428™ Concrete Repair Epoxy	63, 65, 119
39395	LOCTITE® PE 3165™ B Epoxy Hardener	98
39397	LOCTITE® UK 3184™ Polyurethane Adhesive Hardener	97, 98
39398	LOCTITE® UK 3184™ Polyurethane Adhesive Hardener	97, 98
39401	LOCTITE® Clover® Silicon Carbide Grease Mix	93
39406	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93
39413	LOCTITE® Clover® Silicon Carbide Grease Mix	93
39426	LOCTITE® Clover® Silicon Carbide Grease Mix	93
39431	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93
39439	LOCTITE® Clover® Silicon Carbide Grease Mix	93
39444	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93
39463	LOCTITE® Clover® Silicon Carbide Grease Mix	93
39468	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93
39473	LOCTITE® Clover® Silicon Carbide Grease Mix	93



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PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
39478	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40479	LOCTITE® SI 5900® Instant Gasket	73, 75, 77
39510	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40481	LOCTITE® SI 595™ Clear RTV Silicone Adhesive Sealant	30, 31, 77
39515	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40482	LOCTITE® SI 5019™ Blue Silicone Adhesive	76, 77
39523	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40505	LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	73, 75, 77
39528	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40512	LOCTITE® PE 3145™ A Epoxy Adhesive Resin	97, 98
39549	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40594	LOCTITE® AA H8010™ Structural Adhesive	39
39554	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40604	LOCTITE® 406™ Instant Adhesive	9
39561	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40640	LOCTITE® 406™ Instant Adhesive	9
39566	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40661	LOCTITE® 406™ Instant Adhesive	9
39579	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40792	LOCTITE® EA 3355™ Light Cure Adhesive	21
39587	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40840	LOCTITE® 408™ Instant Adhesive	9
39589	LOCTITE® Clover® Silicon Carbide Grease Mix	93	40861	LOCTITE® 408™ Instant Adhesive	9
39592	LOCTITE® Clover® Silicon Carbide Pat Gel® Water Mix	93	40870	LOCTITE® EA 3985™ Adhesive	44
39598	LOCTITE® Clover® Duplex Packaging Kit	94	40888	LOCTITE® AA H8500™ Adhesive Activator	37, 39
39633	LOCTITE® 200/400 ml Mix Nozzle, 6 pack	116	40900	LOCTITE® EA 3478™ Superior Metal	117, 119
39636	LOCTITE® Flex Cleaner	116	40904	LOCTITE® 409™ Instant Adhesive	10
39643	LOCTITE® LB 8008™	83, 85	40945	LOCTITE® 409™ Instant Adhesive	10
39712	LOCTITE® Clover® Silicon Carbide Reel Sharpening Mix	94	40969	LOCTITE® SI 5905™ Flange Sealant RTV Silicone	75
39715	LOCTITE® Clover® Silicon Carbide Reel Sharpening Mix	94	40974	LOCTITE® 409™ Instant Adhesive	10
39893	LOCTITE® LB C-200™ High Temperature Solid Film Lubricant	90	40994	LOCTITE® 435™ Instant Adhesive	8, 9, 158, 159
39894	LOCTITE® LB C-200™ High Temperature Solid Film Lubricant	90	40995	LOCTITE® 435™ Instant Adhesive	8, 9, 158, 159
39896	LOCTITE® LB 8017™ Moly Dry Film Lubricant	87, 90	40997	LOCTITE® 438™ Instant Adhesive	9
39897	LOCTITE® LB 8017™ Moly Dry Film Lubricant	87, 90	41004	LOCTITE® 410™ Instant Adhesive	9
39901	LOCTITE® LB 8044™	84, 85	41045	LOCTITE® 410™ Instant Adhesive	9
39904	LOCTITE® Thread Seal Tape	146	41061	LOCTITE® 410™ Instant Adhesive	9
39916	LOCTITE® UR 7001™	48	41104	LOCTITE® 411™ Instant Adhesive	9
39917	LOCTITE® EA 3473™ Fast Set Steel Putty	117, 119	41145	LOCTITE® 411™ Instant Adhesive	9
39944	LOCTITE® PE 3140™ A Epoxy Resin	98	41161	LOCTITE® 411™ Instant Adhesive	9
39945	LOCTITE® PE 3140™ A Epoxy Resin	98	41205	LOCTITE® LB 8070™	84, 85
39947	LOCTITE® PE 3141™ A Epoxy Adhesive Resin	97, 98	41254	LOCTITE® 431™ Instant Adhesive	9, 157, 159
39950	LOCTITE® PE 3142™ Epoxy Resin	98	41255	LOCTITE® 431™ Instant Adhesive	9, 157, 159
39960	LOCTITE® PE 3162™ B Epoxy Hardener	98	41256	LOCTITE® 431™ Instant Adhesive	9, 157, 159
39964	LOCTITE® PE 3163™ B Epoxy Hardener	98	41327	LOCTITE® SI 5600™/5604™ Silicone Sealant - Part A	30, 31
39966	LOCTITE® PE 3163™ B Epoxy Hardener	98	41343	LOCTITE® PC 9331™ Low Odor Wearing Compound	57
39970	LOCTITE® PE 3164™ B Epoxy Hardener	98	41404	LOCTITE® 414™ Instant Adhesive	10
39984	LOCTITE® UK 3173™ Polyurethane Resin	98	41450	LOCTITE® 414™ Instant Adhesive	10
39985	LOCTITE® UK 3173™ Polyurethane Resin	98	41461	LOCTITE® 414™ Instant Adhesive	10
39986	LOCTITE® UK 3173™ Polyurethane Resin	98	41550	LOCTITE® 415™ Instant Adhesive	10
39995	LOCTITE® UK 3182™ Polyurethane Hardener	98	41561	LOCTITE® 415™ Instant Adhesive	10
39996	LOCTITE® UK 3182™ Polyurethane Hardener	98	41650	LOCTITE® 416™ Instant Adhesive	10
39997	LOCTITE® UK 3182™ Polyurethane Hardener	98	41661	LOCTITE® 416™ Instant Adhesive	10
39998	LOCTITE® UK 3183™ Polyurethane Hardener	98	41732	LOCTITE® SI 5600™ Silicone Sealant - Part B	30, 31
39999	LOCTITE® UK 3183™ Polyurethane Hardener	98	42050	LOCTITE® 420™ Instant Adhesive	10
40086	LOCTITE® SI 5031™ Silicone Potting Compound	21, 102, 103	42061	LOCTITE® 420™ Instant Adhesive	10
40087	LOCTITE® SI 5031™ Silicone Potting Compound	21, 102, 103	42250	LOCTITE® 422™ Instant Adhesive	10
40088	LOCTITE® SI 5033™ Silicone Adhesive Sealant	21	42261	LOCTITE® 422™ Instant Adhesive	10
40089	LOCTITE® SI 5033™ Silicone Adhesive Sealant	21	42540	LOCTITE® 425™ Instant Adhesive	138
40104	LOCTITE® 401™ Instant Adhesive	7, 9	43004	LOCTITE® 430™ Instant Adhesive	10
40140	LOCTITE® 401™ Instant Adhesive	7, 9	43050	LOCTITE® 430™ Instant Adhesive	10
40161	LOCTITE® 401™ Instant Adhesive	7, 9	43061	LOCTITE® 430™ Instant Adhesive	10
40270	LOCTITE® PC 7257™ Winter Additive	64, 65	45404	LOCTITE® 454™ Instant Adhesive	7, 9
40271	LOCTITE® PC 7257™ Summer Additive	64, 65	45440	LOCTITE® 454™ Instant Adhesive	7, 9
40340	LOCTITE® 403™ Instant Adhesive	7, 9	45474	LOCTITE® 454™ Instant Adhesive	7, 9
40361	LOCTITE® 403™ Instant Adhesive	7, 9	45478	LOCTITE® 454™ Instant Adhesive	7, 9
40404	LOCTITE® SI 5040™ RTV Silicone Potting Compound	103	46040	LOCTITE® 460™ Instant Adhesive	9
40405	LOCTITE® SI 5040™ RTV Silicone Potting Compound	103	46061	LOCTITE® 460™ Instant Adhesive	9
40408	LOCTITE® SI 5045™ Flange Sealant	75	46548	LOCTITE® 404® Instant Adhesive	8, 10
40409	LOCTITE® SI 5045™ Flange Sealant	75	46551	LOCTITE® 404® Instant Adhesive	8, 10
40438	LOCTITE® SI 5039™ Silicone Adhesive Sealant	21, 77	46561	LOCTITE® 404® Instant Adhesive	8, 10
40439	LOCTITE® SI 5039™ Silicone Adhesive Sealant	21, 77	48040	LOCTITE® 480™ Instant Adhesive	9
40462	LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker	69, 75, 77	48061	LOCTITE® 480™ Instant Adhesive	9
40463	LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	69, 75, 77	49504	LOCTITE® 495™ Instant Adhesive	10
40464	LOCTITE® SI 593™ Black Silicone Adhesive Sealant	30, 31, 77	49550	LOCTITE® 495™ Instant Adhesive	10
40465	LOCTITE® SI 596™ RD Silicone Adhesive Sealant	74, 76, 77	49561	LOCTITE® 495™ Instant Adhesive	10
40466	LOCTITE® SI 594™ White Silicone Adhesive Sealant	30, 31, 77	49650	LOCTITE® 496™ Instant Adhesive	10
40478	LOCTITE® SI 5900® Instant Gasket	73, 75, 77	49661	LOCTITE® 496™ Instant Adhesive	10
			49850	LOCTITE® 498™ Instant Adhesive	10

# Index by Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
49861	LOCTITE® 498™ Instant Adhesive	10
50965	LOCTITE® 509™ Flange Sealant	71
51001	LOCTITE® LB 8008™	83, 85
51002	LOCTITE® LB 8008™	83, 85
51004	LOCTITE® LB 8008™	83, 85
51005	LOCTITE® LB 8008™	83, 85
51006	LOCTITE® LB 8008™	83, 85
51007	LOCTITE® LB 8008™	83, 85
51008	LOCTITE® LB 8008™	83, 85
51009	LOCTITE® LB 8008™	83, 85
51011	LOCTITE® LB 8008™	83, 85
51031	LOCTITE® 510™ Flange Sealant	69, 71
51041	LOCTITE® 510™ Flange Sealant	69, 71
51048	LOCTITE® LB 8012™	85
51049	LOCTITE® LB 8012™	85
51074	LOCTITE® 510™ Flange Sealant	69, 71
51084	LOCTITE® LB 8504™ Anti-Seize	85
51094	LOCTITE® LB 8700™ Anti-Seize	85
51102	LOCTITE® LB 771™	83, 85
51115	LOCTITE® LB N-1,000™ High Purity Anti-Seize	85
51116	LOCTITE® N-1,000™ High Purity Anti-Seize	85
51117	LOCTITE® N-1,000™ High Purity Anti-Seize	85
51144	LOCTITE® LB 8008™	83, 85
51145	LOCTITE® LB 8012™	85
51146	LOCTITE® LB 8008™	83, 85
51147	LOCTITE® LB 8008™	83, 85
51152	LOCTITE® LB 771™	83, 85
51211	LOCTITE® PC 9660™ Heavy-Duty Rustproofing	51, 53
51213	LOCTITE® PC 9660™ Heavy-Duty Rustproofing	51, 53
51221	LOCTITE® LB 8711™ Penetrating Oil	90
51242	LOCTITE® LB 8219™ Extreme Pressure Grease	90
51243	LOCTITE® LB N-5000™ High Purity Anti-Seize	85
51245	LOCTITE® LB N-5000™ High Purity Anti-Seize	85
51246	LOCTITE® LB N-5000™ High Purity Anti-Seize	85
51252	LOCTITE® LB 8104™ Food Grade Grease	90
51269	LOCTITE® LB N-5000™ High Purity Anti-Seize	85
51270	LOCTITE® LB 8013™ High Purity Anti-Seize	85
51272	LOCTITE® LB 8013™ High Purity Anti-Seize	85
51273	LOCTITE® LB 8013™ High Purity Anti-Seize	85
51277	LOCTITE® LB 8008™	83, 85
51299	LOCTITE® LB 8008™ CS-A® Copper-Based Anti-Seize Lubricant	83, 85
51346	LOCTITE® LB N-5000™ High Purity Anti-Seize	85
51360	LOCTITE® LB 8801™ Silicone Lubricant	90
51387	LOCTITE® SI 5011™ CL Non-Corrosive RTV Silicone Adhesive Sealant	74, 76
51388	LOCTITE® SI 5011™ CL Non-Corrosive RTV Silicone Adhesive Sealant	74, 76
51517	LOCTITE® 515™ Flange Sealant	71
51531	LOCTITE® 515™ Flange Sealant	71
51572	LOCTITE® High Performance LB N-5000™ High Purity Anti-Seize	85
51580	LOCTITE® 515™ Flange Sealant	71
51605	LOCTITE® LB 8009™	84, 85
51606	LOCTITE® LB 8009™	84, 85
51607	LOCTITE® LB 8009™	84, 85
51608	LOCTITE® LB 8009™	84, 85
51609	LOCTITE® LB 8009™	84, 85
54505	LOCTITE® 545™ Thread Sealant	143, 145
54531	LOCTITE® 545™ Thread Sealant	143, 145
54541	LOCTITE® 545™ Thread Sealant	143, 145
55441	LOCTITE® 554™ Thread Sealant	145
56507	LOCTITE® 565™ Thread Sealant	143, 145
56531	LOCTITE® 565™ Thread Sealant	143, 145
56541	LOCTITE® 565™ Thread Sealant	143, 145
56543	LOCTITE® 565™ Thread Sealant	143, 145
56566	LOCTITE® 565™ Thread Sealant	143, 145
56571	LOCTITE® 565™ Thread Sealant	143, 145
56931	LOCTITE® 569™ Thread Sealant	145
56941	LOCTITE® 569™ Thread Sealant	145
58031	LOCTITE® 580™ Thread Sealant	145

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
58730	LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker	69, 75
58775	LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker	69, 75
58791	LOCTITE® SI 587™ Blue High Performance RTV Silicone Gasket Maker	69, 75
59214	LOCTITE® 592™ Thread Sealant	145
59231	LOCTITE® 592™ Thread Sealant	145
59241	LOCTITE® 592™ Thread Sealant	145
59243	LOCTITE® 592™ Thread Sealant	145
59330	LOCTITE® SI 593™ Silicone Adhesive Sealant	30, 31
59375	LOCTITE® SI 593™ Silicone Adhesive Sealant	30, 31
59430	LOCTITE® SI 594™ Silicone Adhesive Sealant	30, 31
59475	LOCTITE® SI 595™ White Silicone Adhesive Sealant	30, 31
59530	LOCTITE® SI 595™ White Silicone Adhesive Sealant	30, 31
59575	LOCTITE® SI 595™ White Silicone Adhesive Sealant	30, 31
59630	LOCTITE® SI 596™ RD Silicone Adhesive Sealant	74, 76
59675	LOCTITE® SI 596™ RD Silicone Adhesive Sealant	74, 76
59830	LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	69, 75
59875	LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	69, 75
59891	LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	69, 75
60905	LOCTITE® 609™ Retaining Compound	125
60921	LOCTITE® 609™ Retaining Compound	125
60931	LOCTITE® 609™ Retaining Compound	125
60941	LOCTITE® 609™ Retaining Compound	125
60943	LOCTITE® 609™ Retaining Compound	125
62005	LOCTITE® 620™ Retaining Compound	123, 125
62015	LOCTITE® 620™ Retaining Compound	123, 125
62040	LOCTITE® 620™ Retaining Compound	123, 125
62070	LOCTITE® 620™ Retaining Compound	123, 125
62085	LOCTITE® 620™ Retaining Compound	123, 125
64031	LOCTITE® 640™ Retaining Compound	125
64041	LOCTITE® 640™ Retaining Compound	125
64043	LOCTITE® 640™ Retaining Compound	125
66010	LOCTITE® 660™ Retaining Compound	124, 125
66040	LOCTITE® 660™ Retaining Compound	124, 125
66141	LOCTITE® 661™ Retaining Compound	125
66170	LOCTITE® 661™ Retaining Compound	125
75430	LOCTITE® SF 754™ Rust Treatment	52, 53
75448	LOCTITE® SF 754™ Rust Treatment	52, 53
75465	LOCTITE® SF 754™ Rust Treatment	52, 53
76732	LOCTITE® LB 8150™ Anti-Seize	83, 85
76759	LOCTITE® LB 8151™ Anti-Seize	83, 85
76764	LOCTITE® LB 8150™ Anti-Seize	83, 85
76775	LOCTITE® LB 8150™ Anti-Seize	83, 85
76820	LOCTITE® SF 768™ Cleanup Solvent	131
76871	LOCTITE® SF 768™ Cleanup Solvent	131
77124	LOCTITE® LB 771™	83, 85
77164	LOCTITE® LB 771™	83, 85
77175	LOCTITE® LB 771™	83, 85
79040	LOCTITE® SF 790™ Paint Stripper (Methylene Chloride)	131
80206	LOCTITE® LB 8150™ Anti-Seize	83, 85
80209	LOCTITE® LB 8150™ Anti-Seize	83, 85
80964	LOCTITE® MR GS2™ Gasket Sealant	71
81246	LOCTITE® LB 8801™ Silicone Lubricant	90
82039	LOCTITE® SF 7693™ Cold Galvanizing Compound	51, 53
82046	LOCTITE® SI 5920™ Copper, High Performance RTV Silicone Gasket Maker	75
82093	LOCTITE® EA 9480™ Underwater Repair Epoxy	119
82279	LOCTITE® SI 596™ RD Silicone Adhesive Sealant	74, 76
83000	LOCTITE® AA H3000™ Adhesive	38, 39
83001	LOCTITE® AA H3000™ Adhesive	38, 39
83019	LOCTITE® AA H3300™ Adhesive	38, 39
83020	LOCTITE® AA H3300™ Adhesive	38, 39
83022	LOCTITE® AA H3300™ Adhesive	38, 39
83024	LOCTITE® AA H3300™ Adhesive	38, 39

# CAN'T FIND A LOCTITE® PRODUCT?

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PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
83025	LOCTITE® AA H4000™ Structural Adhesive	39	96332	LOCTITE® PC 7338™ Ultra-High Temperature Pneu-Wear	57
83032	LOCTITE® AA H4100™ Structural Adhesive	39	96363	LOCTITE® 7455™ Fast Cure Pneu-Wear	57
83038	LOCTITE® AA H4200™ Structural Adhesive	39	96373	LOCTITE® PC 9599™ Fast Cure Wearing Compound	57
83069	LOCTITE® EA 0151™ Adhesive	43	96392	LOCTITE® PC 7339™ Nordbak® Wearing Compound	57
83075	LOCTITE® EA 608™ Adhesive	44	96433	LOCTITE® PC 7234™ High Temperature Brushable Ceramic	57
83086	LOCTITE® EA 608™ Adhesive	44	96443	LOCTITE® PC 7228™ Nordbak® Brushable Ceramic	55, 57
83094	LOCTITE® EA 615™ Adhesive	44	96495	LOCTITE® PC 7204™ High Performance Quartz	64, 65
83104	LOCTITE® EA 9340™ Adhesive	43	96604	LOCTITE® PC 3965™ Fast Set Steel Epoxy	119
83105	LOCTITE® EA 9340™ Adhesive	43	96675	LOCTITE® PC 7393™ Rapid Rubber Repair Urethane	115, 116
83113	LOCTITE® EA 9430™ Adhesive	43	96676	LOCTITE® PC 7393™ Rapid Rubber Repair Urethane	115, 116
83114	LOCTITE® EA 9430™ Adhesive	43	96677	LOCTITE® PC 7393™ Rapid Rubber Repair Urethane	115, 116
83127	LOCTITE® EA 9460™ Adhesive	43	97001	LOCTITE® Hand Pump, 250 ml	127, 139, 147, 166
83128	LOCTITE® EA 9460™ Adhesive	43	97006	LOCTITE® Precision Syringe Dispensing System	12, 24, 160, 166
83129	LOCTITE® EA 9460™ Adhesive	43	97042	LOCTITE® 50 ml Dual Cartridge Pneumatic Applicator	40, 46, 48, 162, 166
83130	LOCTITE® EA 9460™ Adhesive	43	97101	LOCTITE® Digital Dispense Controller	12, 25, 165
83131	LOCTITE® EA 9460™ Adhesive	43	97111	LOCTITE® Handheld Applicator, Manual	23, 128, 140, 148, 166
83133	LOCTITE® EA 9460™ Adhesive	43	97112	LOCTITE® Handheld Applicator, Pneumatic	23, 128, 140, 148, 166
83134	LOCTITE® EA 9462™ Adhesive	43	97113	LOCTITE® Stationary Applicator Valve	11, 36, 140, 148, 167, 170
83142	LOCTITE® EA 9462™ Adhesive	43	97114	LOCTITE® Stationary Applicator Valve	11, 36, 140, 148, 167, 170
83176	LOCTITE® EA 0151™ Adhesive	43	97115	LOCTITE® Rotospray™ Applicator	12, 25, 127
83179	LOCTITE® EA 0151™ Adhesive	43	97116	LOCTITE® Handheld Applicator, Pneumatic	23, 128, 140, 148, 166
83216	LOCTITE® EA 9432NA™ Epoxy Adhesive	44	97119	LOCTITE® Advancing Slide (100 mm) for Dual Channel Controller	12
83217	LOCTITE® EA 9432NA™ Epoxy Adhesive	44	97130	LOCTITE® LV Hand-Held Applicator	11, 128, 140, 148, 166
83239	TECHNOMELT® 232™ Hot Melt Adhesive	14, 16	97131	LOCTITE® Vari-Drop™ Applicator	11, 128, 140, 148, 166
83245	TECHNOMELT® 232™ Hot Melt Adhesive	14, 16	97132	LOCTITE® Vari-Drop™ Applicator	11, 128, 140, 148, 166
83247	TECHNOMELT® 232™ Hot Melt Adhesive	14, 16	97135	LOCTITE® Diaphragm Valve	128, 140, 148, 167
83248	TECHNOMELT® 236™ Hot Melt Adhesive	16	97136	LOCTITE® Diaphragm Valve	128, 140, 148, 167
83264	TECHNOMELT® 740™ Hot Melt Adhesive	14, 16	97141	LOCTITE® Pinch Tube Valve	167, 172
83267	TECHNOMELT® 1942™ Hot Melt Adhesive	14, 16, 105, 106	97152	LOCTITE® Dual Channel Automatic Controller	12, 25, 127, 165
83269	TECHNOMELT® 1942™ Hot Melt Adhesive	14, 16, 105, 106	97207	LOCTITE® 10 ml Clear Syringe Barrel Kit	179
83274	TECHNOMELT® 1942™ Hot Melt Adhesive	14, 16, 105, 106	97208	LOCTITE® 10 ml Syringe Air Line Adapter	179
83277	TECHNOMELT® 1942™ Hot Melt Adhesive	14, 16, 105, 106	97215	LOCTITE® Cartridge-Syringe Adapter	175
83279	LOCTITE® 4046™ Hot Melt Adhesive	16	97216	LOCTITE® 10 ml Syringe Starter Kit	179
83308	TECHNOMELT® PA 7460™ Hot Melt Adhesive	13, 15	97221	1/4" Polyethylene Tapered Tips, 16 Gauge, Grey, 50 pack	175
83316	LOCTITE® PA 7802™ Hot Melt Adhesive	15	97222	1/4" Polyethylene Tapered Tips, 18 Gauge, Green, 50 pack	175
83319	LOCTITE® PA 7802™ Hot Melt Adhesive	15	97223	1/4" Polyethylene Tapered Tips, 20 Gauge, Pink, 50 pack	175
83321	LOCTITE® PA 7802™ Hot Melt Adhesive	15	97224	1/4" Polyethylene Tapered Tips, 22 Gauge, Blue, 50 pack	175
83328	TECHNOMELT® PA 7804™ Hot Melt Adhesive	13, 15	97225	1/2" Stainless Steel Tips, 15 Gauge, Amber, 50 pack	175
83330	TECHNOMELT® PA 7804™ Hot Melt Adhesive	13, 15	97226	1/2" Stainless Steel Tips, 18 Gauge, Green, 50 pack	175
83338	LOCTITE® PA 7811™ Hot Melt Adhesive	105, 106	97227	1/2" Stainless Steel Tips, 20 Gauge, Pink, 50 pack	175
83340	LOCTITE® PA 7811™ Hot Melt Adhesive	105, 106	97228	1/2" Stainless Steel Tips, 25 Gauge, Red, 50 pack	175
83342	LOCTITE® PA 7901™ Hot Melt Adhesive	13, 15, 105, 106	97229	1 1/2" Polypropylene Tips Helical Thread, 15 Gauge, Amber, 50 pack	175
83349	TECHNOMELT® 0430™ Hot Melt Adhesive	14, 15	97230	1 1/2" Polypropylene Tips Helical Thread, 18 Gauge, Green, 50 pack	175
83354	TECHNOMELT® 0450™ Hot Melt Adhesive	14, 15	97231	1 1/2" Polypropylene Tips Helical Thread, 20 Gauge, Pink, 50 pack	175
83356	TECHNOMELT® 0450™ Hot Melt Adhesive	14, 15	97232	1 1/2" Polypropylene Tips Helical Thread, 25 Gauge, Red, 50 pack	175
83358	TECHNOMELT® 1X™ Hot Melt Adhesive	14, 16	97233	LOCTITE® Luer-Lok® Adapter Kit	175
83360	TECHNOMELT® 1X™ Hot Melt Adhesive	14, 16	97244	LOCTITE® 30 ml Clear Syringe Barrel Kit	179
83365	TECHNOMELT® 1X™ Hot Melt Adhesive	14, 16	97245	LOCTITE® 30/55 ml Syringe Air Line Adapter	179
83368	TECHNOMELT® 1X™ Hot Melt Adhesive	14, 16	97248	LOCTITE® Tip Caps, 50 pack	175
83372	TECHNOMELT® 6009S™ Hot Melt Adhesive	13, 15	97261	LOCTITE® High Density Polyethylene, 15 Gauge, White, 50 pack	175
83374	LOCTITE® 740LV™ Hot Melt Adhesive	16	97262	LOCTITE® Needle Assortment Kit	175
83394	LOCTITE® CoolMelt™ Hot Melt Adhesive	16	97263	LOCTITE® 10 ml Black Syringe Barrel Kit for UV Adhesives	179
83398	TECHNOMELT® QuickPac™ Hot Melt Adhesive	16	97264	LOCTITE® 30 ml Black Syringe Barrel Kit for UV Adhesives	179
83400	TECHNOMELT® QuickPac™ Hot Melt Adhesive	16	97294	LOCTITE® 30 ml Syringe Starter Kit	179
83675	LOCTITE® PA 7809FR™ Hot Melt Adhesive	13, 15, 105, 106	97412	LOCTITE® MR FLEX 80™ Castable Urethane Liquid	116
83676	LOCTITE® PA 7809FR™ Hot Melt Adhesive	13, 15, 105, 106	97413	LOCTITE® MR FLEX 80™ Castable Urethane Liquid	116
95551	LOCTITE® PC 9410™ High Strength, Rapid Setting Concrete Repair Material	64, 65	97422	LOCTITE® MR FLEX 80™ Urethane Repair Putty	56, 57, 116
95555	LOCTITE® PC 9410™ High Strength, Rapid Setting Concrete Repair Material	64, 65	97423	LOCTITE® MR FLEX 80™ Urethane Repair Putty	56, 57, 116
95724	LOCTITE® MR 2000™ Extreme Temperature Repair Putty	119	97434	LOCTITE® EA 9035™ 4-Minute Epoxy	119
96092	LOCTITE® PC 7319™ Nordbak® Chemical Resistant Coating	52, 53, 56, 57	97443	LOCTITE® EA 3471™ Stainless Steel Putty	119
96102	LOCTITE® PC 7202™ Marine Chocking Compound	65	97453	LOCTITE® PC 3466™ Castable Aluminum Liquid	118, 119
96121	LOCTITE® Phenolic Roller Cores	62	97463	LOCTITE® PC 7254™ Aluminum Putty	118, 119
96131	LOCTITE® Mixer Blades	62	97473	LOCTITE® EA 3478™ Superior Metal	117, 119
96153	LOCTITE® Bristle Roller Cores	62	97483	LOCTITE® EA 3472™ Steel-Filled Castable Epoxy	117, 119
96321	LOCTITE® Pipe Repair Kit	149, 150	97484	LOCTITE® EA 3472™ Steel-Filled Castable Epoxy	117, 119
96322	LOCTITE® Pipe Repair Kit	149, 150	97541	LOCTITE® Replacement Tube Inserts	172
			97572	LOCTITE® PC 7202™ Marine Chocking Compound	65

# Index by Item Number

195

Index by Product or Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
97970	LOCTITE® 3/8" Black PTFE-Lined Feed Tube	180
97972	LOCTITE® 1/4" Black PTFE-Lined Feed Tube	180
98003	LOCTITE® ZETA® 7415 UV Benchtop Conveyor	25, 165
98004	LOCTITE® Electrodeless Lamp Assembly and Power Supply (208 VAC)	25, 165
98005	LOCTITE® Electrodeless Lamp Assembly and Power Supply (240 VAC)	25, 165
98009	LOCTITE® Light Cure Dispense Valve	11, 23, 128, 140, 148, 160, 167, 170
98013	LOCTITE® Cyanoacrylate Dispense Valve	11, 127, 140, 148, 160, 167, 170
98022	LOCTITE® 300 ml Cartridge Pusher	11, 24, 36, 45, 72, 78, 104, 166
98033	LOCTITE® Hysol® 075 Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98034	LOCTITE® Hysol® 075-LT Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98036	LOCTITE® Hysol® 175-AIR Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98037	LOCTITE® Hysol® 175-SPRAY Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98039	LOCTITE® ZETA® 7401 UV Chamber	25, 165
98040	LOCTITE® Hysol® 175-AIR-HT Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98041	LOCTITE® Hysol® 175-SPRAY-HT Hot Melt Dispenser	16, 17, 18, 107, 108, 168
98050	LOCTITE® Foot Pedal Dispenser	12, 24, 166
98061	1/4" Polyethylene Tapered Tips, 16 Gauge, Grey, 1,000 pack	175
98062	1/4" Polyethylene Tapered Tips, 18 Gauge, Green, 1,000 pack	175
98063	1/4" Polyethylene Tapered Tips, 20 Gauge, Pink, 1,000 pack	175
98064	1/4" Polyethylene Tapered Tips, 22 Gauge, Blue, 1,000 pack	175
98065	1/2" Stainless Steel Tips, 15 Gauge, Amber, 1,000 pack	175
98066	1/2" Stainless Steel Tips, 18 Gauge, Green, 1,000 pack	175
98067	1/2" Stainless Steel Tips, 20 Gauge, Pink, 1,000 pack	175
98068	1/2" Stainless Steel Tips, 25 Gauge, Red, 1,000 pack	175
98069	1 1/2" Polypropylene Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	175
98070	1 1/2" Polypropylene Tips Helical Thread, 18 Gauge, Green, 1,000 pack	175
98071	1 1/2" Polypropylene Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	175
98074	LOCTITE® High Density Polyethylene, 15 Gauge, White, 1,000 pack	175
98080	1/2" Stainless Steel Tips, 22 Gauge, Blue, 1,000 pack	175
98082	1 1/2" Polypropylene Tips Helical Thread, 25 Gauge, Red, 1,000 pack	175
98084	LOCTITE® Micro Needle Valve	23, 160, 167, 170
98090	LOCTITE® Shot Miser™ Reservoir	12, 24, 139, 147, 165
98100	1/2" Stainless Steel Tips, 22 Gauge, Blue, 50 pack	175
98114	1/4" Stainless Steel Tips Helical Thread, 32 Gauge, Yellow, 50 pack	174
98115	1/4" Stainless Steel Tips Helical Thread, 32 Gauge, Yellow, 1,000 pack	174
98122	LOCTITE® 30 ml Pneumatic Syringe Barrel, Black (500 pack)	180
98125	LOCTITE® 3 ml Pneumatic Syringe Piston (1,000 pack)	180
98127	LOCTITE® 10 ml Pneumatic Syringe Piston (1,000 pack)	180
98128	LOCTITE® Cartridge Dispense Tip	175
98163	1 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 50 pack	174
98164	1 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 1,000 pack	174
98165	1 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	174
98166	1 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	174
98167	1 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174
98168	1 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174
98169	1 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174
98170	1 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174
98171	1 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98172	1 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98173	1 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174
98174	1 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174
98175	1 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	174
98176	1 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
98177	1 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174
98178	1 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174
98179	1 1/2" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	174
98180	1 1/2" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	174
98181	LOCTITE® Cartridge-Tube Fitting Adapter	175
98192	LOCTITE® 10 / 30 ml Syringe Manual Plungers	36, 45, 72
98193	LOCTITE® 10 / 30 ml Syringe Manual Plungers	36, 45, 72
98196	1/4" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174
98197	1/4" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174
98198	1/4" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174
98199	1/4" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174
98200	1/4" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98201	1/4" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98208	1/2" Stainless Steel Tips, 14 Gauge, Olive, 50 pack	175

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
98209	1/2" Stainless Steel Tips, 14 Gauge, Olive, 1,000 pack	175
98210	1/2" Stainless Steel Tips, 21 Gauge, Purple, 50 pack	175
98211	1/2" Stainless Steel Tips, 21 Gauge, Purple, 1,000 pack	175
98212	1/2" Stainless Steel Tips, 23 Gauge, Orange, 50 pack	175
98213	1/2" Stainless Steel Tips, 23 Gauge, Orange, 1,000 pack	175
98214	1/2" Stainless Steel Tips, 27 Gauge, Clear, 50 pack	175
98215	1/2" Stainless Steel Tips, 27 Gauge, Clear, 1,000 pack	175
98216	1" Stainless Steel Tips Helical Thread, 14 Gauge, White, 50 pack	174
98217	1" Stainless Steel Tips Helical Thread, 14 Gauge, White, 1,000 pack	174
98218	1" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	174
98219	1" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	174
98220	1" Stainless Steel Tips Helical Thread, 16 Gauge, Black, 50 pack	174
98221	1" Stainless Steel Tips Helical Thread, 16 Gauge, Black, 1,000 pack	174
98222	1" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174
98223	1" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174
98224	1" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174
98225	1" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174
98226	1" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98227	1" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98228	1" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174
98229	1" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174
98230	1" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	174
98231	1" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
98232	1" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174
98233	1" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174
98234	1" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	174
98235	1" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	174
98236	45° by 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 50 pack	174
98237	45° by 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 1,000 pack	174
98238	90° by 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 50 pack	174
98239	90° by 1/2" Stainless Steel Tips Helical Thread, 14 Gauge, White, 1,000 pack	174
98240	45° by 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	174
98241	45° by 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	174
98242	90° by 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	174
98243	90° by 1/2" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	174
98244	45° by 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174
98245	45° by 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174
98246	90° by 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174
98247	90° by 1/2" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174
98248	45° by 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174
98249	45° by 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174
98250	90° by 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174
98251	90° by 1/2" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174
98252	45° by 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98253	45° by 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98254	90° by 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98255	90° by 1/2" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98256	45° by 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174
98257	45° by 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174
98258	90° by 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174
98259	90° by 1/2" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174
98260	45° by 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	174
98261	45° by 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
98262	90° by 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	174
98263	90° by 1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
98264	45° by 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174
98265	45° by 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174
98266	90° by 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174
98267	90° by 1/2" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174

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PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
98268	45° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	174	98424	½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	174
98269	45° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	174	98425	½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	174
98270	90° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	174	98430	LOCTITE® 200/400 ml Mix Nozzle, 500 pack	177
98271	90° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	174	98439	LOCTITE® Showcase Needle Variety Kit	175
98272	1¼" Polyethylene Tapered Tips, 14 Gauge, Tan, 50 pack	175	98440	LOCTITE® LED 7700 On/Off Foot Switch	26, 156
98273	1¼" Polyethylene Tapered Tips, 14 Gauge, Tan, 1,000 pack	175	98441	LOCTITE® Micro Needle Valve Mounting Bracket Kit	170
98314	LOCTITE® 55 ml Clear Syringe Barrel Kit	179	98445	LOCTITE® Light Cure Acrylic Adhesive Dispensing System	160, 166
98315	LOCTITE® 55 ml Black Syringe Barrel Kit for UV Adhesives	179	98446	LOCTITE® Roller Assembly 1" wide band	175
98316	LOCTITE® 30 ml Syringe Mounting Bracket Kit	170	98447	LOCTITE® Replacement Rollers 1" wide, 3 pack	175
98318	LOCTITE® 300 ml Cartridge Mounting Bracket Kit	170	98448	LOCTITE® Roller Assembly 2" wide band	175
98320	LOCTITE® 10 ml Adapter for 98316	170	98449	LOCTITE® Replacement Rollers 2" wide, 3 pack	175
98321	LOCTITE® 5 ml Adapter for use with 98316	170	98452	LOCTITE® UV & Visible Light Safety Glasses, Orange	26, 155
98322	LOCTITE® 3 ml Adapter for use with 98316	170	98455	LOCTITE® 50 ml Mix Nozzle, 10 pack	40, 119
98326	LOCTITE® Valve Mounting Bracket Kit	170	98472	LOCTITE® 50 ml Dual Cartridge Manual Applicator	40, 46, 48, 119, 166
98327	LOCTITE® Valve Mounting Bracket Kit	170	98479	LOCTITE® 3 ml Pneumatic Syringe Barrel and Piston Kit, Natural (50 pack)	180
98328	LOCTITE® Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations	170	98480	LOCTITE® 3 ml Pneumatic Syringe Barrel and Piston Kit, Natural (1,000 pack)	180
98329	LOCTITE® Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations	170	98481	LOCTITE® 3 ml Pneumatic Syringe Barrel and Piston Kit, Black (50 pack)	180
98336	LOCTITE® Mounting Adapter for 4-Axis Robots	170	98482	LOCTITE® 3 ml Pneumatic Syringe Barrel and Piston Kit, Black (1,000 pack)	180
98343	LOCTITE® Mounting Kit for 3-Axis SCARA Robots	170	98483	LOCTITE® 5 ml Pneumatic Syringe Barrel and Piston Kit, Natural (50 pack)	180
98345	LOCTITE® Soft Squeeze Bottle	11, 166	98484	LOCTITE® 5 ml Pneumatic Syringe Barrel and Piston Kit, Natural (1,000 pack)	180
98346	LOCTITE® Soft Squeeze Bottle	11, 166	98485	LOCTITE® 5 ml Pneumatic Syringe Barrel and Piston Kit, Black (50 pack)	180
98347	LOCTITE® Soft Squeeze Bottle	11, 166	98486	LOCTITE® 5 ml Pneumatic Syringe Barrel and Piston Kit, Black (1,000 pack)	180
98357	LOCTITE® Z Height Adjustment Plate for 3-Axis Benchtop Robot	170	98487	LOCTITE® 10 ml Pneumatic Syringe Barrel and Piston Kit, Natural (50 pack)	180
98364	LOCTITE® 50 ml Mix Nozzle, 2,000 pack	176	98488	LOCTITE® 10 ml Pneumatic Syringe Barrel and Piston Kit, Natural (1,000 pack)	180
98367	LOCTITE® 200/400 ml Snap Tip Mix Nozzle	177	98489	LOCTITE® 10 ml Pneumatic Syringe Barrel and Piston Kit, Black (50 pack)	180
98371	LOCTITE® Cartridge-Needle Adapter	175	98490	LOCTITE® 10 ml Pneumatic Syringe Barrel and Piston Kit, Black (1,000 pack)	180
98372	LOCTITE® PC 7303™ High Temperature Pneu-Wear	57	98491	LOCTITE® 30 ml Pneumatic Syringe Barrel and Piston Kit, Natural (50 pack)	180
98377	LOCTITE® Posi-Link™ Controller	166, 171, 172	98492	LOCTITE® 30 ml Pneumatic Syringe Barrel and Piston Kit, Natural (500 pack)	180
98379	LOCTITE® Posi-Link™ 10-50 Actuator	172	98493	LOCTITE® 30 ml Pneumatic Syringe Barrel and Piston Kit, Black (50 pack)	180
98382	LOCTITE® PC 7317™ Nordbak® Pneu-Wear	55, 57	98494	LOCTITE® 30 ml Pneumatic Syringe Barrel and Piston Kit, Black (500 pack)	180
98383	LOCTITE® PC 7317™ Nordbak® Pneu-Wear	55, 57	98495	LOCTITE® 55 ml Pneumatic Syringe Barrel and Piston Kit, Natural (250 pack)	180
98385	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 14 Gauge, White, 50 pack	175	98496	LOCTITE® 55 ml Pneumatic Syringe Barrel and Piston Kit, Natural (50 pack)	180
98386	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 14 Gauge, White, 1,000 pack	175	98497	LOCTITE® 55 ml Pneumatic Syringe Barrel and Piston Kit, Black (50 pack)	180
98387	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 16 Gauge, Grey, 50 pack	175	98498	LOCTITE® 55 ml Pneumatic Syringe Barrel and Piston Kit, Black (250 pack)	180
98388	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 16 Gauge, Grey, 1,000 pack	175	98499	LOCTITE® Tip Caps, 1,000 pack	175
98389	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 18 Gauge, Green, 50 pack	175	98501	LOCTITE® Applicator Holder	179
98390	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 18 Gauge, Green, 1,000 pack	175	98520	LOCTITE® Spray Valve	72, 128, 139, 140, 147, 148, 167, 170
98391	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 20 Gauge, Pink, 50 pack	175	98522	LOCTITE® LED Holder	26, 156
98392	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 20 Gauge, Pink, 1,000 pack	175	98544	LOCTITE® Hysol® 050 Hot Melt Applicator	18, 108
98393	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 22 Gauge, Blue, 50 pack	175	98545	LOCTITE® Hysol® 050-HT Hot Melt Dispenser	18, 108
98394	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 22 Gauge, Blue, 1,000 pack	175	98548	LOCTITE® Benchtop Peristaltic Dispenser	12, 24, 128, 140, 160, 166
98396	½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	174	98557	LOCTITE® 3 ml Pneumatic Syringe Barrel, Natural (1,000 pack)	180
98397	½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	174	98559	LOCTITE® 5 ml Pneumatic Syringe Barrel, Natural (1,000 pack)	180
98398	½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	174	98561	LOCTITE® 10 ml Pneumatic Syringe Barrel, Natural (1,000 pack)	180
98399	½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	174	98563	LOCTITE® 30 ml Pneumatic Syringe Barrel, Natural (500 pack)	180
98400	½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	174	98565	LOCTITE® 55 ml Pneumatic Syringe Barrel, Natural (250 pack)	180
98401	½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	174	98576	LOCTITE® 5 ml Pneumatic Syringe Barrel, Black (1,000 pack)	180
98402	½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174	98578	LOCTITE® 10 ml Pneumatic Syringe Barrel, Black (1,000 pack)	180
98403	½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174	98581	LOCTITE® 55 ml Pneumatic Syringe Barrel, Black (250 pack)	180
98404	½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174	98584	LOCTITE® 5 ml Pneumatic Syringe Piston (1,000 pack)	180
98405	½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174	98587	LOCTITE® 30/55 ml Pneumatic Syringe Piston (1,000 pack)	180
98406	LOCTITE® Poppet Valve Mounting Bracket Kit	170	98606	LOCTITE® 500D Benchtop Robot, 4-Axis	169
98408	LOCTITE® Mounting Kit for 3-Axis SCARA Robots	170			
98413	LOCTITE® ZETA® 7411-S UV Flood System	25, 165			
98414	LOCTITE® 50 ml Hand Pump	127, 139, 147, 166			
98416	LOCTITE® 55 ml Syringe Starter Kit	179			

# Index by Item Number

197

Index by Product or Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
98610	LOCTITE® 3/4" wide x 3/8" NPT Dispense Nozzle, 10 pack	175
98611	1/2" Stainless Steel Tips Helical Thread, 23 Gauge, orange, 50 pack	174
98612	1/2" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
98622	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
98623	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
98624	1/4" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	174
98625	1/4" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	174
98626	1/4" Stainless Steel Tips Helical Thread, 27 Gauge, Clear, 50 pack	174
98627	1/4" Stainless Steel Tips Helical Thread, 27 Gauge, Clear, 1,000 pack	174
98628	1/4" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 50 pack	174
98629	1/4" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 1,000 pack	174
98641	LOCTITE® Posi-Link™ Dual Cartridge Nests	172
98642	LOCTITE® Posi-Link™ Dual Cartridge Nests	172
98646	LOCTITE® Universal Syringe Bracket for Posi-Link™	170
98647	LOCTITE® 50 ml Dual Cartridge Bracket for Posi-Link™	170
98652	LOCTITE® Light-blocking Shield for Dispense Tips, 10 pack	175
98655	LOCTITE® 3 ml Pneumatic Syringe Barrel, Black (1,000 pack)	180
98656	LOCTITE® 3 ml Syringe Air Line Adapter	179
98657	LOCTITE® 5 ml Syringe Air Line Adapter	179
98658	1/4" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 25 Gauge, Red, 50 pack	175
98659	1/4" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 25 Gauge, Red, 1,000 pack	175
98660	1/4" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 27 Gauge, Clear, 50 pack	175
98661	1/4" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 27 Gauge, Clear, 1,000 pack	175
98667	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	116
98671	LOCTITE® Solenoid Valve	172
98672	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	177
98693	LOCTITE® MR 5023™ Flex Conveyor Belt Repair Kit	115, 116
98732	LOCTITE® PC 7227™ Nordbak® Brushable Ceramic	55, 57
98733	LOCTITE® PC 7227™ Nordbak® Brushable Ceramic	55, 57
98742	LOCTITE® PC 7222™ Nordbak® Wear Resistant Putty	55, 57, 119
98743	LOCTITE® PC 7222™ Nordbak® Wear Resistant Putty	55, 57, 119
98853	LOCTITE® EA 3463™ 10-Minute Repair Epoxy	117, 119
98992	LOCTITE® PC 9628™ Castable Wearing Compound	57
99112	LOCTITE® PC 7230™ High Temperature Wearing Compound	57
99361	LOCTITE® PC 9416™ Floor Fill	64, 65
99365	LOCTITE® PC 9416™ Floor Fill	64, 65
99545	LOCTITE® PC 9626™ Deep Pour Grout	65
99626	LOCTITE® Etching Agent	116
99912	LOCTITE® EA 3471™ Steel Putty	117, 119
99913	LOCTITE® EA 3471™ Steel Putty	117, 119
99914	LOCTITE® EA 3471™ Steel Putty	117, 119
142241	TEROSON® Multipress Telescopic Dispenser	32
142245	LOCTITE® Primer Applicators	80
149361	LOCTITE® Cutting Wire for Glass Removal	80
209719	LOCTITE® 577™ Thread Sealant	145
243335	LOCTITE® 200/400 ml Mix Nozzle, 6 pack	115, 116, 177
250052	LOCTITE® Soft Press Hand Held Pneumatic Applicator	32
395397	LOCTITE® Cartridge Opener	80
419115	LOCTITE® Nozzle Adapter/Check Valve	18, 108
606052	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	177
642844	TEROSON® SB 450™	29, 80
700910	TEROSON® MS 9371™	29
720173	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	177
720174	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	40, 177
720175	LOCTITE® Luer-Lok® Adapter	178
720177	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	40, 177
720221	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
720222	LOCTITE® 200/400 ml Mix Nozzle, 1,500 pack	177
720225	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
720226	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	177
720227	LOCTITE® 50 ml Square Mix Nozzle, 10 pack	176
720230	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
773794	LOCTITE® 200/400 ml Mix Nozzle, 50 pack	177
778273	LOCTITE® 50 ml Square Mix Nozzle, 10 pack	176

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
796993	LOCTITE® Pre-heater Box	56
804261	LOCTITE® 200/400 ml Square Mix Nozzle, 1,000 pack	177
806038	LOCTITE® 7703 LED Light Source	26, 156, 165
826190	LOCTITE® 50 ml Square Mix Nozzle, 1,000 pack	176
830704	1/4" Stainless Steel Tips Helical Thread, 14 Gauge, Olive, 50 pack	174
831304	LOCTITE® PC 9410™ High Strength, Rapid Setting Concrete Repair Material	64, 65
848088	LOCTITE® 200/400 ml Square Mix Nozzle, 1,000 pack	177
874905	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	31, 116, 177
875472	LOCTITE® 200/400 ml Square Mix Nozzle, 500 pack	177
877569	TEROSON® MS 939™	29, 31
877641	TEROSON® MS 939™	29, 31
883976	LOCTITE® Digital Syringe Dispensing System	12, 24, 160, 166
883979	LOCTITE® 7703-HD LED Light Source	26, 156, 165
916050	LOCTITE® Nozzle Adapter/Check Valve	18, 108
916282	LOCTITE® Hysol® 050A Hot Melt Dispenser	16, 17, 18, 107, 108, 168
918088	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	177
922089	LOCTITE® SI 5600™ Silicone Adhesive Sealant - Part B	30, 31
922122	LOCTITE® SI 5600™ Silicone Adhesive Sealant - Part A	30, 31
922128	LOCTITE® SI 5600™ Silicone Adhesive Sealant - Part A	30, 31
922129	LOCTITE® SI 5600™/5604™ Silicone Sealant - Part A	30, 31
922544	LOCTITE® SI 5600™ Silicone Sealant	30, 31
922546	LOCTITE® SI 5600™ Silicone Adhesive Sealant	30, 31
924107	LOCTITE® SI 5600™/5604™ Silicone Sealant - Part A	30, 31
930705	LOCTITE® 200/400 ml Mix Nozzle, 1,000 pack	177
960304	TEROSON® Powerline II 300 ml Dispenser	32, 80, 166
960356	LOCTITE® LED Cure Timer	26, 156
970655	LOCTITE® Luer-Lok® Adapter	178
976786	LOCTITE® PC 7257™ Activator	63, 64, 65
980160	LOCTITE® High Intensity Ultraviolet Sources	25, 165
981821	LOCTITE® 3/4" Clear Polyethylene Feed Tube	180
981866	LOCTITE® 3/8" Clear Polyethylene Feed Tube	180
981994	LOCTITE® 1/4" Clear Nylon Feed Tube for Pump-A-Bead™	180
982644	LOCTITE® Cartridge Adapter	175
982719	LOCTITE® Bond-A-Matic® 3000 Dispenser, 0-15 psi	12, 24, 36, 128, 140, 148, 166
982720	LOCTITE® Bond-A-Matic® 3000 Reservoir	12, 24, 127, 139, 147, 165
982722	LOCTITE® Bond-A-Matic® 3000 Reservoir	12, 24, 36, 128, 140, 148, 166
982723	LOCTITE® Bond-A-Matic® 3000 Reservoir	12, 24, 127, 139, 147, 165
982726	LOCTITE® Bond-A-Matic® 3000 Reservoir	12, 24, 127, 139, 147, 165
982727	LOCTITE® Bond-A-Matic® 3000 Reservoir	12, 24, 127, 139, 147, 165
982880	LOCTITE® 4 Liter Gravity Feed Reservoir	139, 147, 165
98283A	LOCTITE® 200D Benchtop Robot, 4-Axis	169
98291A	LOCTITE® 300D Benchtop Robot, 4-Axis	169
98299A	LOCTITE® 400D Benchtop Robot, 4-Axis	169
98319A	LOCTITE® 300 ml Pneumatic Cartridge Dispensing Retainer	11, 24, 45, 72, 78, 104, 166
983330	LOCTITE® Positive Displacement Pump	12, 25, 127, 140, 148, 167
983436	LOCTITE® Dual Cartridge Manual Applicator	46, 48, 166
983437	LOCTITE® Dual Cartridge Pneumatic Applicator	46, 48, 166
983438	LOCTITE® 400 ml "F" Dual Cartridge – Manual	40, 46, 48, 166
983439	LOCTITE® Dual Cartridge Pneumatic Applicator	40, 46, 48, 166
983509	LOCTITE® 50 ml Mix Nozzle, 2,000 pack	176
984210	LOCTITE® Conversion Kit (Pneumatic) for 400 ml Cartridges	40, 166
984211	LOCTITE® Conversion Kit (Manual) for 400 ml Cartridges	40, 166
984261	LOCTITE® Standard Adapter for 300 ml Cartridge	18, 108
984262	LOCTITE® Standard 1-Hole Nozzle	18, 108
984263	LOCTITE® Adapter/Check Valve for Specialty Nozzles	18, 108
984264	LOCTITE® Needle Jet Nozzle Tip	18, 108
984268	LOCTITE® 3-Hole Nozzle	18, 108
984272	LOCTITE® Injection Needle Nozzle	18, 108
984650	LOCTITE® Air Line Filter for Syringe Dispensing	179
984688	LOCTITE® Silicone Tubing for Dispense Valve Purging (10 Pack)	180
984832	LOCTITE® Tube Fitting: 1/4" male NPT x 1/4" feed tube, 10 pack	175
985110	LOCTITE® 2-Hole Nozzle	18, 108
985111	LOCTITE® 3-Hole Nozzle	18, 108
985112	LOCTITE® Diagonal Extension Nozzle	18, 108
985113	LOCTITE® Needle Extension Nozzle	18, 108
985114	LOCTITE® Spreader Extension Nozzle	18, 108
985115	LOCTITE® L-Nozzle	18, 108

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PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
985122	LOCTITE® Standard Medium Spray Nozzle	18, 108	1069258	LOCTITE® 7088™ Primer	71, 126, 138, 146
985211	LOCTITE® Narrow Spray Nozzle	18, 108	1072199	LOCTITE® AA 3554™ Light Cure Adhesive	22, 155
985216	LOCTITE® Ultra-Wide Spray Nozzle	18, 108	1072200	LOCTITE® AA 3555™ Light Cure Adhesive	22, 154, 155
985225	LOCTITE® 1-Hole Nozzle	18, 108	1072221	LOCTITE® AA 3555™ Light Cure Adhesive	22, 154, 155
985246	LOCTITE® Dual Cartridge Manual Applicator	40, 46, 48, 166	1072222	LOCTITE® AA 3556™ Light Cure Adhesive	20, 22, 154, 155
985249	LOCTITE® Dual Cartridge Pneumatic Applicator	40, 46, 48, 166	1072223	LOCTITE® AA 3556™ Light Cure Adhesive	20, 22, 154, 155
985397	LOCTITE® Air Line Filter, Regulator Gauge	18, 108	1078234	LOCTITE® EA E-30UT™ Adhesive	42, 43
986000	LOCTITE® Pump-A-Bead™ II Dispenser	72, 166	1083845	LOCTITE® 50 ml F Tube Squeeze Dispenser	36, 72, 139, 147, 166
986025	Nozzle: 0.025" diameter for LOCTITE® Poppet Valve (986300)	180	1084092	LOCTITE® 200/400-F ml Cartridge Mix Nozzle	40, 178
986035	Nozzle: 0.035" diameter for LOCTITE® Poppet Valve (986300)	180	1084093	LOCTITE® 200/400-F ml Cartridge Mix Nozzle	178
986060	Nozzle: 0.060" diameter for LOCTITE® Poppet Valve (986300)	180	1084255	LOCTITE® 200/400 ml 4:1 Cartridge Mix Nozzle	178
986300	LOCTITE® Poppet Valve	72, 128, 140, 148, 167, 170, 180	1086065	LOCTITE® EA E-4OHT™ Adhesive	43
986301	Valve Rebuild Kit for LOCTITE® Poppet Valve (986300)	180	1086081	LOCTITE® EA E-4OHT™ Adhesive	43
989268	LOCTITE® 0.014 Nozzle Kit	72, 128, 140, 148	1086598	LOCTITE® EA E-05MR™ Adhesive	41, 44
989269	LOCTITE® 0.028 Nozzle Kit	72, 128, 140, 148	1086599	LOCTITE® EA E-05MR™ Adhesive	41, 44
989518	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	177	1087602	LOCTITE® EA E-05MR™ Adhesive	41
989763	LOCTITE® 200 Series Light Curtain Guarding System	170	1087603	LOCTITE® EA E-05MR™ Adhesive	41
989771	LOCTITE® 300 Series Light Curtain Guarding System	170	1087986	LOCTITE® AA 3060™ Structural Adhesive	35
989777	LOCTITE® 400/500 Series Light Curtain Guarding System	170	1087987	LOCTITE® AA 3060™ Structural Adhesive	35
989787	LOCTITE® 200 Series Slide Door Guarding System	170	1093940	LOCTITE® Manual Cartridge Applicator 300 ml	32, 46, 64, 66, 72, 77, 78, 166
989788	LOCTITE® 300 Series Slide Door Guarding System	170	1093981	LOCTITE® Heavy Duty Manual Cartridge Applicator	64, 66, 166
989789	LOCTITE® 400/500 Series Slide Door Guarding System	170	1095801	LOCTITE® External Mix Assembly	36
989852	LOCTITE® SCARA Light Curtain Guarding System	170	1098256	LOCTITE® 200/400 ml Mix Nozzle, 1,200 pack	177
996453	LOCTITE® AA H8000™ Adhesive	37, 39	1100962	LOCTITE® 300 ml Single-Axis Cartridge Mix Nozzle	63, 66, 178
996456	LOCTITE® LB 8040™ Fast Acting Corrosion Release	88, 90	1100963	LOCTITE® 300 ml Single Axis Cartridge Mix Nozzle	66, 178
997367	LOCTITE® PC 7227™ Nordbak® Brushable Ceramic	55, 57	1108757	LOCTITE® EA 7363™ Anchor Bolt Grout HP	65
997369	LOCTITE® PC 7234™ High Temperature Brushable Ceramic	57	1108758	LOCTITE® EA 7363™ Anchor Bolt Grout HP	65
998390	LOCTITE® Vari-Drop™ Applicator Brushes, 10 pack	175	1108886	LOCTITE® PC 9012™ Crack Filler NS	63, 65
998400	LOCTITE® Dial-A-Seal® Applicator	147, 166	1112888	LOCTITE® SI 5604™ Silicone Sealant - Part B	31
1003327	LOCTITE® LED-HD Timer Handle	26, 156	1113131	LOCTITE® Focused UV Flood Curing System	25, 165
1008338	LOCTITE® S440 SCARA-N Robot, 4-Axis	169	1116241	LOCTITE® 50 ml Mix Nozzle, 2,500 pack	176
1008351	LOCTITE® S440 SCARA-N Robot, 3-Axis	169	1117828	LOCTITE® PC 7473™ Nordbak® Fast Cure Pneu-Wear	57
1010320	LOCTITE® SI 5240™ Light Cure Adhesive	20, 21, 102, 103, 154, 155	1134601	LOCTITE® 2422™ Threadlocker	137
1010341	LOCTITE® SI 5240™ Light Cure Adhesive	20, 21, 102, 103, 154, 155	1134607	LOCTITE® 2047™ Threadlocker	138
1010343	LOCTITE® SI 5240™ Light Cure Adhesive	20, 21, 102, 103, 155	1135732	LOCTITE® AA 3974™ Light Cure Adhesive	19, 22, 154, 155
1012500	LOCTITE® PC 9410™ High Strength, Rapid Setting Concrete Repair Material	64, 65	1135733	LOCTITE® AA 3974™ Light Cure Adhesive	19, 22, 154, 155
1022006	LOCTITE® Digital Multifunctional Controller	12, 25, 165	1138258	LOCTITE® SI 5604™ Elastic Adhesive	31
1032026	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	177	1138281	LOCTITE® 5770™ Thread Sealant	145
1034026	LOCTITE® 50 ml Dual Cartridge Manual Applicator	40, 46, 48, 166	1138282	LOCTITE® 2620™ Threadlocker	138
1034030	LOCTITE® CureJet™ Mounting Bracket Kit	170	1138284	LOCTITE® 5770™ Thread Sealant	145
1034575	LOCTITE® 50 ml-B Mix Nozzle, 10 pack	40, 176	1143355	LOCTITE® 50 ml Mix Nozzle with Integral Needle Adapter, 2,000 pack	176
1041620	LOCTITE® DuraPump™ Pneumatic Meter Mix System	173	1145743	LOCTITE® 50 ml Mix Nozzle with Integral Needle Adapter, 10 pack	176
1041635	LOCTITE® DuraPump™ Programmable Meter Mix System	173	1146078	LOCTITE® Stainless Steel, PTFE Lined, 25 Gauge, 1,000 pack	175
1041636	LOCTITE® DuraPump™ Pneumatic Meter Mix System	173	1146079	LOCTITE® Stainless Steel, PTFE Lined, 25 Gauge, 50 pack	175
1041637	LOCTITE® DuraPump™ Pneumatic Meter Mix System	167, 173	1147763	LOCTITE® Cartridge-Dispense Valve Adapter Assembly Fischbach Thread x 1/4" male NPT	175
1041638	LOCTITE® DuraPump™ Programmable Meter Mix System	167, 173	1153502	LOCTITE® High Pressure Dispense Valve - 150 Bar	32, 36, 45, 78, 104, 167
1041639	LOCTITE® DuraPump™ Programmable Meter Mix System	167, 173	1162399	LOCTITE® SI 5109™ RD Silicone Adhesive	74, 76
1041641	LOCTITE® DuraPump™ Pneumatic Meter Mix System	167, 173	1165866	LOCTITE® SI Green RTV Silicone Adhesive	76, 77
1041643	LOCTITE® DuraPump™ Pneumatic Meter Mix System	167, 173	1166733	LOCTITE® UK 3364™ Adhesive	47, 48, 97, 98
1041644	LOCTITE® DuraPump™ Programmable Meter Mix System	167, 173	1167237	LOCTITE® LB 8014	84, 85
1041647	LOCTITE® DuraPump™ Pneumatic Meter Mix System	173	1167582	LOCTITE® LED Flood Cure, 375	26, 156, 165
1041648	LOCTITE® DuraPump™ Pneumatic Meter Mix System	167, 173	1167589	LOCTITE® LED Flood Cure, Indigo®	26, 156, 165
1041649	LOCTITE® DuraPump™ Programmable Meter Mix System	167, 173	1167593	LOCTITE® LED Flood Array, 405	26, 156, 165
1044246	LOCTITE® Aero Nozzle for Silicones in aerosol cans, 10 pack	175	1169241	LOCTITE® LB 8014™	84, 85
1044247	LOCTITE® Cartridge-Syringe Adapter	175	1170163	LOCTITE® LB 8014™	84, 85
1045339	LOCTITE® Cartridge-Needle Adapter	175	1175530	LOCTITE® Pneumatic Handgun	56, 166
1046901	LOCTITE® High Pressure 300 ml Benchtop Cartridge Dispenser	32, 36, 45, 78, 104, 166	1176431	LOCTITE® 6 ml Clear Manual Syringe Kit (1,000 pack)	180
1053262	LOCTITE® 200/400 ml Mix Nozzle, 2,000 pack	177	1176432	LOCTITE® 3 ml Clear Manual Syringe Kit (1,000 pack)	180
1056942	LOCTITE® AA H8100™ Adhesive	37, 39	1180632	LOCTITE® CureJet™ Quad Controller	26, 156, 165
1056943	LOCTITE® AA H8100™ Adhesive	37, 39	1180633	LOCTITE® 10 ml Clear Manual Syringe Kit (1,000 pack)	180
1057673	LOCTITE® AA 331™ Adhesive	33, 34, 35	1180634	LOCTITE® 35 ml Clear Manual Syringe Kit (500 pack)	180
1057674	LOCTITE® AA 331™ Adhesive	33, 34, 35	1180636	LOCTITE® 35 ml Clear Manual Syringe Kit (10 pack)	180
1061921	50 ml Mix Nozzle, 100 pack	176	1180637	LOCTITE® 10 ml Clear Manual Syringe Kit (10 pack)	180
1062124	LOCTITE® AA 331™ Adhesive	33, 34, 35	1180638	LOCTITE® 6 ml Clear Manual Syringe Kit (10 pack)	180
1065306	LOCTITE® 200/400 ml Mix Nozzle, 500 pack	177	1180639	LOCTITE® 3 ml Clear Manual Syringe Kit (10 pack)	180
1065313	LOCTITE® 200/400 ml Mix Nozzle, 500 pack	177	1182757	TEROSON® EP 5089™	42, 44

# Index by Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
1182761	TEROSON® EP 5089™	42, 44
1182927	TEROSON® EP 5089™	42, 44
1186840	LOCTITE® 2046™ Threadlocker	137
1197606	LOCTITE® 50 ml Mix Nozzle, 10 pack	137, 176
1212164	LOCTITE® SI 5075™ Insulating & Sealing Wrap	149, 150
1212165	LOCTITE® SI 5050™ Fastgasket™ Silicone Adhesive Sealant	19, 21, 73, 77
1212167	LOCTITE® SI 5055™ Silicone Adhesive Sealant	102, 103, 155
1214246	LOCTITE® SI 5055™ Silicone Adhesive Sealant	102, 103, 155
1214247	LOCTITE® SI 5055™ Silicone Adhesive Sealant	102, 103, 155
1214248	LOCTITE® SI 5056™ Silicone Adhesive Sealant	19, 21, 101, 103, 155
1214249	LOCTITE® SI 5056™ Light Cure Adhesive	19, 21, 101, 103, 154, 155
1214250	LOCTITE® SI 5056™ Light Cure Adhesive	19, 21, 101, 103, 154, 155
1228790	LOCTITE® 200/400 ml Stepped Tip Mix Nozzle, 1,000 pack	177
1233800	LOCTITE® 10 ml Gel CA Syringe Dispenser	11, 160, 166
1241543	LOCTITE® UV Curing Conveyor	25, 165
1241991	LOCTITE® 5188™ Flexible Flange Sealant	71
1244443	LOCTITE® Stainless Steel, PTFE Lined, 21 Gauge, 50 pack	175
1244444	½" Stainless Steel Tips Helical Thread, 14 Gauge, Olive, 50 pack	174
1248606	LOCTITE® 200/400 ml Spray Tip Mix Nozzle	56, 178
1250154	LOCTITE® SI 5606™ Silicone Adhesive / Sealants	31
1250155	LOCTITE® SI 5605™ Silicone Adhesive / Sealants	31
1250156	LOCTITE® SI 5606™ Silicone Adhesive / Sealants	31
1250755	LOCTITE® 5606™ Silicone Adhesive / Sealants	31
1250756	LOCTITE® SI 5607™ Silicone Adhesive / Sealants	31
1250757	LOCTITE® SI 5607™ Silicone Adhesive / Sealants	31
1250758	LOCTITE® SI 5605™ Silicone Adhesive / Sealants, Part B	31
1251677	LOCTITE® SI 5605™ Silicone Adhesive / Sealants, Part B	31
1252929	LOCTITE® SI 5607™ Silicone Adhesive / Sealants	31
1253201	LOCTITE® SI 5605™/5606™/5607™ Series – Part A, 4.5 gallon	31
1253202	LOCTITE® SI 5605™/5606™/5607™ Series – Part A, 440 lb.	31
1253203	LOCTITE® 5188™ Flexible Flange Sealant	71
1255058	½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	174
1255059	½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	174
1255702	LOCTITE® AA A-6750™ Structural Adhesive	35
1255709	LOCTITE® AA A-671™ Adhesive	33, 35
1256488	LOCTITE® AA A-671™ Adhesive	33, 35
1256497	½" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 1,000 pack	174
1256501	LOCTITE® AA A-671™ Adhesive	33, 35
1256503	LOCTITE® AA A-6750™ Structural Adhesive	35
1256848	½" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 50 pack	174
1257475	LOCTITE® SI 5625™ Silicone Potting Compound	102, 103
1257478	LOCTITE® SI 5620™ Silicone Potting Compound	75, 102, 103
1257594	LOCTITE® SI 5620™ Silicone Potting Compound	75, 102, 103
1257595	LOCTITE® SI 5620™ Silicone Potting Compound	75, 102, 103
1257596	LOCTITE® SI 5620™ Silicone Potting Compound	75, 102, 103
1257597	LOCTITE® SI 5620™ Silicone Potting Compound	75, 102, 103
1257607	LOCTITE® SI 5623™ Silicone Potting Compound	102, 103
1257609	LOCTITE® SI 5623™ Silicone Potting Compound	102, 103
1257611	LOCTITE® SI 5623™ Silicone Potting Compound	102, 103
1257612	LOCTITE® SI 5623™ Silicone Potting Compound	102, 103
1257613	LOCTITE® SI 5625™ Silicone Potting Compound	102, 103
1257615	LOCTITE® SI 5625™ Silicone Potting Compound	102, 103
1257616	LOCTITE® SI 5625™ Silicone Potting Compound	102, 103
1257617	LOCTITE® SI 5625™ Silicone Potting Compound	102, 103
1259190	LOCTITE® 50 ml Round Mix Nozzle, 10 Pack	176
1259300	LOCTITE® SI 5623™ Silicone Potting Compound	102, 103
1265282	LOCTITE® Radiometer Dosimeter for Visible Led and Uvw Light	25, 26, 156, 165
1265769	LOCTITE® 5452™ Thread Sealant	145
1265770	LOCTITE® 5452™ Thread Sealant	145
1266142	LOCTITE® SI 595™ Silicone Adhesive Sealant	30, 31
1291113	LOCTITE® PC 6231™ Crack Filler SL	63, 65
1306968	TEROSON® MS 9399™, Part B	30, 32
1311327	LOCTITE® SI 5049™ Silicone Adhesive Sealant	30, 31
1312042	LOCTITE® SI 5049™ Silicone Adhesive Sealant	30, 31
1313319	LOCTITE® 5802™ Thread Sealant	145

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
1317781	LOCTITE® SF 7631™ Paint Stripper	131
1323940	LOCTITE® PC 7218™ Nordbak® Wearing Compound	56, 57
1324007	LOCTITE® EA 9017™ Fast Cure Epoxy	119
1324008	LOCTITE® PC 7218™ Nordbak® Wearing Compound	56, 57
1324134	LOCTITE® PC 9458™ Fast Set Grout	65
1324544	LOCTITE® PC 7363™ Ceramic Tile Adhesive	57
1324571	LOCTITE® PC 7357™ Combo Bead Wearing Compound	57
1327836	LOCTITE® PC 9313™ Nordbak® High Impact Wearing Compound	56, 57
1329200	50 ml Mix Nozzle, 100 pack	176
1329467	LOCTITE® 243™ Blue Threadlocker	135, 137
1329505	LOCTITE® 243™ Blue Threadlocker	135, 137
1329837	LOCTITE® 243™ Blue Threadlocker	135, 137
1330255	LOCTITE® 243™ Blue Threadlocker	135, 137
1330333	LOCTITE® 243™ Blue Threadlocker	135, 137
1330334	LOCTITE® 263™ Red Threadlocker	136, 137
1330335	LOCTITE® 263™ Red Threadlocker	136, 137
1330582	LOCTITE® 263™ Red Threadlocker	136, 137
1330583	LOCTITE® 263™ Red Threadlocker	136, 137
1330585	LOCTITE® 263™ Red Threadlocker	136, 137
1334299	LOCTITE® 50 ml Mix Nozzle, 100 pack	176
1337712	LOCTITE® 454™ Instant Adhesive	7, 9
1352349	LOCTITE® PC 6233™ Flexible Low Profile Exterior Grade	61, 62
1354766	LOCTITE® PC 6233™ Flexible Low Profile Exterior Grade	61, 62
1359255	LOCTITE® LED Flood Controller	26, 156, 165
1364033	LOCTITE® Single CureJet™ Controller	26, 156, 165
1369537	LOCTITE® CureJet™ Indigo® LED	26, 156, 165
1369538	LOCTITE® CureJet™ 405 LED	26, 156, 165
1369539	LOCTITE® CureJet™ 375 LED	26, 156, 165
1371250	TEROSON® PU 8599™ Direct Glazing Sealant	79, 80
1371355	LOCTITE® AA H8110™ Adhesive	37, 39
1371361	LOCTITE® AA H8110™ Adhesive	37, 39
1372603	LOCTITE® 249™ Blue Threadlocker Tape	135, 137
1372751	LOCTITE® Fixmaster® Universal Dispenser	46, 48, 115, 116, 166
1373425	LOCTITE® EA 1C™ Adhesive	43
1376969	LOCTITE® 4204™ Instant Adhesive	10
1376970	LOCTITE® 4203™ Instant Adhesive	10
1377344	LOCTITE® EA 1C™ Adhesive	43
1377390	TEROSON® PU 8599™ Direct Glazing Sealant	79, 80
1377391	LOCTITE® EA 1C™ Adhesive	43
1377641	TEROSON® PU 9096™ PL Direct Glazing Sealant	79, 80
1377642	TEROSON® PU 8597™ HMLC Direct Glazing Sealant	79, 80
1377643	TEROSON® PU 8599™ Direct Glazing Sealant	79, 80
1377777	LOCTITE® EA 1C™ Adhesive	43
1384596	LOCTITE® AA H5004™ Adhesive	38, 39
1385991	LOCTITE® SI 5611F™ Silicone Potting Compound	101, 103
1386373	LOCTITE® SI 5611S™ Silicone Potting Compound	101, 103
1386378	LOCTITE® SI 5611S™ Silicone Potting Compound	101, 103
1387212	LOCTITE® SI 5611S™ Silicone Potting Compound	103
1387706	LOCTITE® SI 5611F™ Silicone Potting Compound	101, 103
1387908	LOCTITE® SI 5611S™ Silicone Potting Compound	101, 103
1388496	LOCTITE® SI 5611S™ Silicone Potting Compound	101, 103
1389509	LOCTITE® PC 7255™ Nordbak® Sprayable Ceramic	55, 57
1390321	LOCTITE® Integrated Semiautomatic Dispenser	12, 24, 36, 127, 139, 147, 160, 165
1390322	LOCTITE® Integrated Semiautomatic Dispenser	12, 24, 36, 127, 139, 147, 160, 166
1390323	LOCTITE® Radiometer Dosimeter for UV LED and UV A/B Light	25, 156, 165
1401789	LOCTITE® 4311™ Light Cure Adhesive	8, 9, 20, 21, 158, 159
1401790	LOCTITE® 4310™ Light Cure Adhesive	8, 9, 20, 21, 158, 159
1401791	LOCTITE® 4311™ Light Cure Adhesive	8, 9, 20, 21, 158, 159
1401792	LOCTITE® 4310™ Light Cure Adhesive	8, 9, 20, 21, 158, 159
1402562	LOCTITE® AA 3979™ Light Cure Adhesive	20, 22, 153, 155
1402563	LOCTITE® AA 3979™ Light Cure Adhesive	20, 22, 153, 155
1403405	LOCTITE® Dosimeter Adapter	26, 156
1405182	LOCTITE® 50 ml Square Mix Nozzle, 5,000 pack	176
1406023	LOCTITE® Spray Valve Controller	12, 72, 128, 139, 147, 165
1406024	LOCTITE® 7020 UV Spot Radiometer	25, 156, 165
1418667	TEROSON® PU 8517H™ Glass Primer	80
1427231	LOCTITE® 7700 LED Light Source	26, 156, 165
1427232	LOCTITE® 7700-HD LED Light Source	26, 156, 165



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PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER	PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
1432213	LOCTITE® SI 5611F™ Silicone Potting Compound	101, 103	1573138	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	40, 178
1434516	LOCTITE® 50 ml CA Mix Nozzle, 5 pack	176	1573139	LOCTITE® 200/400 ml Square Mix Nozzle, 1,000 pack	178
1440016	LOCTITE® 50 ml Mix Nozzle, 100 pack	176	1573140	LOCTITE® 200/400 ml Square Mix Nozzle, 1,000 pack	178
1440017	LOCTITE® 50ml Mix Nozzle, 100 pack	176	1573141	LOCTITE® 50 ml Square Mix Nozzle, 10 pack	176
1440018	LOCTITE® 50 ml Mix Nozzle, 100 pack	176	1573142	LOCTITE® 50 ml Square Mix Nozzle, 1,000 pack	176
1447728	LOCTITE® LED Single Line Array Controller	26, 156, 165	1573143	LOCTITE® 50 ml Mix Nozzle, 1,000 pack	176
1449336	LOCTITE® LED Line Array 405 nm Light Source	26, 156, 165	1573144	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
1449337	LOCTITE® LED Line Array 365 nm Light Source	26, 156, 165	1573145	LOCTITE® 50 ml Mix Nozzle, 1,000 pack	176
1452395	LOCTITE® 300D Benchtop Robot, 3-Axis	169	1573146	LOCTITE® 50 ml Mix Nozzle, 10 pack	176
1452396	LOCTITE® 400D Benchtop Robot, 3-Axis	169	1573147	LOCTITE® 50 ml Mix Nozzle, 1,000 pack	176
1476709	LOCTITE® PC 9620™ High Strength, Rapid Setting Grout and Concrete Repair	64, 65	1573149	LOCTITE® 50 ml Mix Nozzle, 10 pack	40, 176
1476710	LOCTITE® PC 9620™ High Strength, Rapid Setting Grout and Concrete Repair	64, 65	1573151	LOCTITE® 50 ml Square Mix Nozzle, 1,000 pack	176
1477097	LOCTITE® PC 9620™ High Strength, Rapid Setting Grout and Concrete Repair	64, 65	1573153	LOCTITE® 50 ml Square Mix Nozzle, 10 pack	176
1493310	LOCTITE® 50 ml S-Style Dual Cartridge Pneumatic Applicator	40, 46, 48, 166	1573154	LOCTITE® 50 ml Square Mix Nozzle, 1,000 pack	176
1496756	LOCTITE® SI 5075™ Insulating & Sealing Wrap	149, 150	1573156	LOCTITE® 50 ml Square Mix Nozzle, 10 pack	176
1500890	LOCTITE® 400 ml Dual Cartridge Pneumatic Applicator	46, 48, 166	1578099	LOCTITE® SF 7635™ Pro Strength Degreaser	131
1501093	LOCTITE® EA E-910™ Epoxy Adhesive	44	1578317	LOCTITE® 500D Benchtop Robot, 3-Axis	169
1506477	LOCTITE® CA Volumetric Hand Pump	11, 160, 166	1578969	TEROSON® MS 5570™ Adhesive	32
1511653	LOCTITE® EA E-40EXP™ Adhesive	41, 43, 97, 98	1578971	TEROSON® MS 5510™ Elastic Sealant	30, 31
1511896	LOCTITE® EA E-40EXP™ Adhesive	41, 43, 97, 98	1578972	TEROSON® MS 5510™ Elastic Sealant	30, 31
1511897	LOCTITE® EA E-40EXP™ Adhesive	41, 43, 97, 98	1579002	TEROSON® MS 5510™ Elastic Sealant	30, 31
1514629	LOCTITE® SD10 Digital Syringe Dispenser	12, 24, 160	1579070	TEROSON® MS 5510™ Elastic Sealant	30, 31
1514634	LOCTITE® EQ CL10 Quad LED Controller	26, 156	1581028	TEROSON® VR 20™	80
1514636	LOCTITE® EQ CL10 Single LED Controller	26, 156	1585606	¼" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	174
1522029	LOCTITE® MR 5923™ Gasket Dressing	71	1585607	¼" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	174
1526121	LOCTITE® 2400 NA™ Blue Threadlocker	137	1592315	LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade	61, 62
1526122	LOCTITE® 2400 NA™ Blue Threadlocker	137	1597107	LOCTITE® 200D Benchtop Robot, 3-Axis	169
1526123	LOCTITE® 2700 NA™ Red Threadlocker	138	1597635	LOCTITE® Hysol® 050A-HT	16, 17, 18, 107, 108, 168
1526565	LOCTITE® 2700 NA™ Red Threadlocker	138	1601332	LOCTITE® PC 6317™ Low Profile Pedestrian Grade	61, 62
1527514	LOCTITE® 5113™	146	1617851	LOCTITE® PC 7641™ Water-based Epoxy Primer/Sealer	62
1534294	LOCTITE® 5117™	146	1602121	LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade	61, 62
1535036	LOCTITE® UR 3370™ Adhesive/Sealant	48	1602674	LOCTITE® PC 6311™ Vehicular Grade	62
1535076	LOCTITE® UR 3370™ Adhesive/Sealant	48	1602678	LOCTITE® PC 6311™ Vehicular Grade	62
1535077	LOCTITE® UR 3370™ Adhesive/Sealant	48	1602679	LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade	61, 62
1537780	LOCTITE® MR 5438™ White Threaded Plastic Pipe Sealant	144, 146	1611449	LOCTITE® VA10 Micro Diaphragm Valve	11, 23, 160, 167
1538160	LOCTITE® UR 3370™ Adhesive/Sealant	48	1611450	LOCTITE® Replacement Nozzle/Check Valve	18, 108
1538161	LOCTITE® UR 3370™ Adhesive/Sealant	48	1616692	LOCTITE® SF 7900™ Ceramic Shield for Welding	52, 53
1540591	LOCTITE® MR 5009™ Hi-Tack Gasket Sealant	71	1617851	LOCTITE® PC 7641™	62
1540599	LOCTITE® SI 5075™ Insulating & Sealing Wrap	149, 150	1617855	LOCTITE® PC 7641™ Water-Based Epoxy Primer/Sealer	62
1544934	LOCTITE® 30 ml Manual Syringe Applicator	11, 23, 36, 45, 72, 160, 162, 166	1620703	LOCTITE® PC 6253™ Acrylic Primer	62
1548600	LOCTITE® UR 3370™ Adhesive/Sealant	48	1620706	LOCTITE® PC 6255™ Acrylic Pedestrian Grade	61, 62
1550213	LOCTITE® UR 3370™ Adhesive/Sealant	48	1624641	LOCTITE® PC 6315™ Zero V.O.C.	62
1550218	LOCTITE® UR 3370™ Adhesive/Sealant	48	1624642	LOCTITE® PC 7643™ METAL PRIMER	62
1550231	LOCTITE® UR 3370™ Adhesive/Sealant	48	1625197	LOCTITE® PC 6317™ Low Profile Pedestrian Grade	61, 62
1552177	LOCTITE® UR 3370™ Adhesive/Sealant	48	1625203	LOCTITE® PC 6311™ Vehicular Grade	62
1552178	LOCTITE® UR 3370™ Adhesive/Sealant	48	1629597	LOCTITE® PC 6317™ Low Profile Pedestrian Grade	61, 62
1552179	LOCTITE® UR 3370™ Adhesive/Sealant	48	1629598	LOCTITE® PC 6255™ Acrylic Pedestrian Grade	61, 62
1560557	TEROSON® MS 5510™ Elastic Sealant	30, 31	1629599	LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade	61, 62
1562040	TEROSON® MS 5510™ Elastic Sealant	30, 31	1629607	LOCTITE® PC 6317™ Low Profile Pedestrian Grade	61, 62
1562042	TEROSON® MS 5510™ Elastic Sealant	30, 31	1633986	LOCTITE® PC 6317™ Low Profile Pedestrian Grade	61, 62
1562044	TEROSON® MS 5510™ Adhesive/Sealant	30, 31	1635175	¼" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	174
1565679	TEROSON® MS 5570™ Adhesive	29, 32	1635176	¼" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	174
1567505	TEROSON® MS 5570™ Adhesive	32	1635546	LOCTITE® RB10 Rotary Dispensing System	170
1567506	TEROSON® MS 5510™ Elastic Sealant	30, 31	1638885	LOCTITE® VA10 Mounting Bracket	170
1567663	TEROSON® MS 5510™ Elastic Sealant	30, 31	1661548	LOCTITE® EQ CL15 UV Wand System	26, 156, 165
1567697	TEROSON® MS 5510™ Elastic Sealant	30, 31	1661866	LOCTITE® 549™ Instant Seal Plastic Gasket Thread Sealant	71
1567698	TEROSON® MS 5510™ Elastic Sealant	30, 31	1667557	LOCTITE® UK 1351 B25™	47, 48
1569523	LOCTITE® Robot Needle Calibration Kit	170	1668032	LOCTITE® UK 1366 B10™	47, 48
1573130	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	178	1670898	LOCTITE® RB15 200D Gantry Robot, 3-Axis	169
1573131	LOCTITE® 200/400 ml Mix Nozzle, 1,000 pack	178	1675274	LOCTITE® UR 3370™ Adhesive/Sealant	48
1573132	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	178	1677288	LOCTITE® AA 3035™ Adhesive	38, 39
1573133	LOCTITE® 200/400 ml Square Mix Nozzle, 10 pack	178	1682223	LOCTITE® RB20 500D Dual Benchtop Robot, 3-Axis	169
1573134	LOCTITE® 200/400 ml Square Mix Nozzle, 1,000 pack	178	1689437	LOCTITE® AA 330™ Adhesive	34, 35
1573135	LOCTITE® 200/400 ml Mix Nozzle, 10 pack	178	1689439	LOCTITE® AA 330™ Adhesive	34, 35
1573136	LOCTITE® 200/400 ml Mix Nozzle, 1,000 pack	178	1689700	LOCTITE® AA 330™ Adhesive	34, 35
			1690727	LOCTITE® AA 330™ Adhesive	34, 35
			1691005	LOCTITE® AA 330™ Adhesive	34, 35

# Index by Item Number

201

Index by Product or Item Number

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
1691394	LOCTITE® AA 330™ Adhesive	34, 35
1714379	LOCTITE® HD10 300 ml Pneumatic Cartridge Dispenser	11, 24, 32, 45, 72, 78, 80, 104, 166
1716378	LOCTITE® PC 6315™ Zero V.O.C.	62
1728412	LOCTITE® Nordbak® 7223™ Wearing Compound Cure Accelerator	56, 57
1730181	LOCTITE® VA15 Diaphragm Valve	11, 167
1736175	LOCTITE® Nordbak® 7224™ Pneu-Wear Cure Accelerator	55, 57
1738359	LOCTITE® SI 5640™ Silicone Potting Compound	101, 103
1738365	LOCTITE® SI 5640™ Silicone Potting Compound	101, 103
1738366	LOCTITE® SI 5640™ Silicone Potting Compound	101, 103
1762904	TECHNOMELT™ PA 7878™ BLACK	110, 112
1762906	TECHNOMELT™ PA 7841™	109, 112
1762907	TECHNOMELT™ AS 7875™	110, 112
1762908	TECHNOMELT™ PA 7852™	112
1762909	TECHNOMELT™ PA 7857™ BLACK	110, 112
1762910	TECHNOMELT™ PA 7808™ BLACK	110, 112
1762931	TECHNOMELT™ PA 7833™	112
1762932	TECHNOMELT™ PA 7808™	112
1762953	TECHNOMELT™ PA 7838™ BLACK	109, 112
1763724	TECHNOMELT™ PA 7873™	110, 112
1764108	TECHNOMELT™ PA 7848™ BLACK	109, 112
1764113	TECHNOMELT™ PA 7846™ BLACK	109, 112
1786073	LOCTITE® LB 8008™	83, 85
1786074	LOCTITE® LB 8017™ Moly Dry Film Lubricant	87, 90
1804373	LOCTITE® Power Grab® Industrial Construction Adhesive	27, 28
1806199	LOCTITE® SF 7113™ Accelerator	10
1807961	LOCTITE® 3092™ Instant Adhesive	8, 9
1835196	LOCTITE® 680™ Retaining Compound	125
1835201	LOCTITE® 680™ Retaining Compound	125
1835205	LOCTITE® 680™ Retaining Compound	125
1835206	LOCTITE® 680™ Retaining Compound	125
1835212	LOCTITE® 680™ Retaining Compound	125
1835917	LOCTITE® 648™ Retaining Compound	123, 125
1835918	LOCTITE® 648™ Retaining Compound	123, 125
1835920	LOCTITE® 648™ Retaining Compound	123, 125
1835922	LOCTITE® 648™ Retaining Compound	123, 125
1835924	LOCTITE® 638™ Retaining Compound	123, 125
1835925	LOCTITE® 638™ Retaining Compound	123, 125
1835936	LOCTITE® 638™ Retaining Compound	123, 125
1835937	LOCTITE® 638™ Retaining Compound	123, 125
1838885	LOCTITE® VA 25 Dispense Valve – 50 bar	167
1844659	LOCTITE® 648™ Retaining Compound	123, 125
1850211	LOCTITE® EQ VA30 Jet Controller	24, 160
1850212	LOCTITE® EQ VA30 Jet Valve	23, 24, 160
1852753	LOCTITE® LB 8507™	83, 85
1852755	LOCTITE® LB 8012™	85
1863184	LOCTITE® PA 7805™ Hot Melt Adhesive	15
1863185	TECHNOMELT™ PA 7804™ Hot Melt Adhesive	13, 15
1865406	LOCTITE® LB 8713™ Super Penetrating Oil	90
1871874	200µm Nozzle Plate	23, 160
1871880	125 µm Nozzle Plate	23, 160
1872279	75µm Nozzle Plate	23, 160
1875841	LOCTITE® 4902™ Instant Adhesive	7, 9, 157, 159
1875842	LOCTITE® 4902™ Instant Adhesive	7, 9, 157, 159
1875847	LOCTITE® 4903™ Instant Adhesive	9, 159
1878379	LOCTITE® MR 5898™	116
1878840	LOCTITE® MR 5898™	116
1898443	TEROSON® MS 9380™ Elastic Adhesive	29, 32
1899447	TEROSON® MS 9320™ Elastic Adhesive	30, 32
1906102	LOCTITE® LB 8108™ High Performance Synthetic Grease	87
1906122	LOCTITE® LB 8529™ Lithium Grease	90
1906177	LOCTITE® LB 8421™ Gear/Chain Lube	90
1915601	LOCTITE® 4090™ Structural Instant Adhesive	8, 9
1925259	TECHNOMELT™ PA 7844™ BLACK	110, 112
1960414	LOCTITE® VA26 Dispense Valve – 50 bar	32, 36, 45, 78, 104, 167
1999141	LOCTITE® LB 8150™ Anti-Seize	83, 85
1999556	LOCTITE® LB 8023™ Marine Grade Anti-Seize	84, 85
1999559	LOCTITE® LB 8008™ Anti-Seize	83, 85

PRODUCT & ITEM NO.	PRODUCT DESCRIPTION	PAGE NUMBER
1999560	LOCTITE® LB 8070™ Anti-Seize	84, 85
2011543	EQ HM18 Reactive Urethane Cartridge Dispenser	17, 18, 107, 108, 168
2018429	LOCTITE® AA H3101™ Adhesive	38, 39
2018435	LOCTITE® AA H3101™ Adhesive	38, 39
2020048	LOCTITE® AA H3151™ Structural Adhesive	39
2025105	LOCTITE® AA H3151™ Structural Adhesive	39
2032203	TEROSON® PU 8519™ P Primer/Activator	80
2040377	TECHNOMELT™ AS 4226™ NA	112
2040430	LOCTITE® EQ HM22 Hot Melt Dispenser	17, 18, 107, 108, 168
2046040	SF 7840™ Fragrance-Free Biodegradable Cleaner & Degreaser	131
2046043	LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser	130, 131
2046047	LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser	130, 131
2046048	LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser	130, 131
2046049	LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser	130, 131
2049852	1-Hole Nozzle	18
2049853	Nozzle with Adapter/Check Valve	18, 108
2049855	LOCTITE® Nozzle Adapter/Check Valve	18, 108
2057196	LOCTITE® AA H8600™ Adhesive	37, 39
2057561	LOCTITE® AA H8610™ Structural Adhesive	39
2060831	LOCTITE® AA H4800™ Adhesive	38, 39
2060835	LOCTITE® AA H8600™ Adhesive	37, 39
2060839	LOCTITE® AA H8700™ Structural Adhesive	39
2060847	LOCTITE® AA H8700™ Structural Adhesive	39
2060848	LOCTITE® AA H4500™ Adhesive	37, 39
2061020	LOCTITE® AA H4500™ Adhesive	37, 39
2061246	LOCTITE® AA H4800™ Adhesive	38, 39
2068378	TEROSON® MS 939™ NA	32
2068749	LOCTITE® 577™ Thread Sealant	145
2069400	TEROSON® MS 939™ NA	32
2069980	LOCTITE® AA H8500™ Adhesive	37, 39
2069982	LOCTITE® AA H8500™ Adhesive	37, 39
2069983	LOCTITE® AA H8510™ Structural Adhesive	39
2069988	TEROSON® MS 939™ NA	32
2069989	TEROSON® MS 939™ NA	32
2069990	TEROSON® MS 939™ NA	32
2069991	TEROSON® MS 939™ NA	32
2069992	TEROSON® MS 939™ NA	32
2069997	TEROSON® MS 939™ NA	29, 32
2071767	TECHNOMELT™ PA 6782™ Low Pressure Molding	112
2073202	LOCTITE® PC 7350™ Conveyor Belt Repair	115, 116
2084201	LOCTITE® PC 7350™ Conveyor Belt Repair	115, 116
2087072	LOCTITE® 567™ Thread Sealant	143, 145
2096061	LOCTITE® 518™ Flange Sealant	69, 70, 71
2096062	LOCTITE® 518™ Flange Sealant	69, 70, 71
2096064	LOCTITE® 518™ Flange Sealant	69, 70, 71
2087067	LOCTITE® 567™ Thread Sealant	143, 145
2087068	LOCTITE® 567™ Thread Sealant	143, 145
2087069	LOCTITE® 567™ Thread Sealant	143, 145
2087073	LOCTITE® 567™ Thread Sealant	143, 145
2102974	LOCTITE® 518™ Flange Sealant	69, 70, 71
2102986	LOCTITE® 518™ Flange Sealant	69, 70, 71
2115386	TEROSON® 9360™	29, 32
2138422	TEROSON® MS 930™	32
2138423	TEROSON® MS 930™	32
2138424	TEROSON® MS 930™	32
2138425	TEROSON® MS 930™	32
2138427	TEROSON® MS 930™	32
2138428	TEROSON® MS 930™	32
2138429	TEROSON® MS 930™	32
2138430	TEROSON® MS 930™	32
2138431	TEROSON® MS 930™	32

# Cross-Index of Legacy Item Number to IDH Number

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
ANZ023N01	739925	19266	135284	21426	209718	23811	230491
00101	302892	19267	135285	21434	231089	24205	230718
00112	228171	19268	229932	21440	231097	24221	135354
00144	228173	19269	135286	21441	231099	24231	135355
03333	228191	19368	135287	21442	231101	24241	135356
12224	135239	19605	135294	21443	1835922	24243	209729
12292	135241	19606	135295	21444	1835920	25523	219481
12294	228354	19727	237036	21445	1835918	25524	219487
12695	88068	19728	135297	21447	1835937	25882	231643
17412	135257	19730	135298	21448	1835936	26205	231922
17421	135258	19731	182815	21449	1835925	26221	231926
17430	229501	19733	475362	21456	231119	26231	135374
17528	229524	19734	195722	21457	209719	26241	135375
17529	219289	19736	88189	21458	231121	26243	231928
17635	229559	19737	146461	21463	231125	26325	231944
17944	142886	19739	135299	21464	231127	27105	232532
18013	88129	19740	135300	21472	231133	27121	135380
18014	229650	19743	237038	21525	231153	27131	135381
18030	229654	19744	230059	21744	231230	27141	88441
18074	229664	19822	230084	21746	231232	27143	209743
18390	135265	19824	135303	21747	231234	27240	88442
18396	135266	19862	160800	21748	231236	27270	195542
18397	229731	19886	88195	21920	92339	27285	232550
18398	229732	19887	88196	21921	231339	27731	88448
18490	135267	19889	135305	21925	231346	27741	88449
18495	229752	19890	110330	22041	231424	27743	209744
18575	229766	19907	230117	22205	231483	27858	232707
18576	135269	20172	135310	22221	135333	27863	232710
18580	229769	20176	212184	22231	135334	28027	232839
18607	142452	20177	230153	22241	135335	28028	232840
18636	229783	20178	230154	22309	231525	28029	244567
18637	229784	20170	230155	22355	231562	28298	233100
18680	142059	20251	1690727	22423	231611	28366	195893
18681	146477	20252	1691005	22424	231613	28400	233200
18682	229804	20253	1691394	22440	135336	28465	233263
18683	229805	20268	237041	22477	135337	28466	233265
18686	229806	20269	202152	22671	88261	28628	233375
18687	229807	20352	135316	23034	135338	28654	236382
18688	229808	20419	193949	23440	230199	28802	233546
18690	223088	20420	230276	23691	146471	29005	233724
18691	92335	21088	209714	23692	230363	29021	233731
18692	229810	21347	231020	23694	223103	29031	135392
18693	229811	21348	209715	23695	195574	29041	135393
18694	229812	21349	195802	23696	230367	29043	209745
18695	229813	21362	135321	23697	88299	29287	233956
18861	135276	21363	135322	23698	168331	29289	237095
18862	229848	21425	209717	23792	237061	29290	237096

# Cross-Index of Legacy Item Number to IDH Number

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
29291	237097	29513	196508	31065	235351	35286	135413
29294	233962	29514	234172	31279	237305	35939	392457
29295	233964	29515	234174	31291	237145	35940	392458
29296	237098	29709	234337	31361	237158	36160	411833
29299	237099	29710	234339	32037	312052	36294	423298
29301	237101	29711	234340	32040	312053	36295	423299
29302	233970	30138	234630	32047	312054	36331	135415
29303	233972	30220	234691	32083	312057	36334	424216
29304	237102	30221	234693	32304	312050	36390	135416
29305	237103	30509	270637	32429	303420	36478	434084
29306	237104	30510	234883	32430	88478	36480	434088
29309	219298	30512	234887	32490	232679	36481	434089
29311	237106	30513	234889	32530	135401	36483	434101
29314	237107	30514	234891	32586	198322	36484	434102
29315	237108	30515	198819	32629	135402	36485	434103
29316	237109	30516	1522029	32685	135404	36492	434108
29317	233981	30518	234896	33058	1689700	36493	434109
29318	233983	30525	1540591	33064	1689437	36631	135418
29319	237110	30526	234910	33081	1689439	36766	443946
29321	237112	30527	226595	33201	232741	36767	443948
29322	233984	30529	234914	33241	250318	36768	443949
29323	233986	30530	270638	33275	232743	36780	457453
29324	237113	30533	270639	33290	160794	36781	457456
29325	237114	30535	234922	33403	247075	36782	457457
29326	237115	30536	270640	33470	232749	36783	457458
29327	233988	30537	234923	33510	265477	36786	1906102
29328	233990	30538	234926	34018	274809	36792	444350
29329	237116	30539	234928	34026	275026	36805	444375
29330	237117	30540	234930	34347	294934	36923	450568
29331	237118	30542	198818	34395	299175	37061	459782
29334	237119	30543	1906122	34517	302677	37087	462476
29335	237120	30544	234933	34518	302678	37127	463973
29336	237121	30545	234935	34731	324130	37229	466863
29339	233999	30548	234941	34931	88489	37230	466864
29340	234001	30558	226654	34943	337637	37312	476035
29348	261797	30560	270642	34944	337638	37316	476904
29349	237126	30671	235017	34979	338124	37388	483618
29350	237127	30673	235021	34980	338125	37439	487909
29353	237128	30674	235023	34982	338127	37442	487921
29354	237129	30676	235025	34983	338128	37535	495549
29355	237130	30678	235029	34985	338130	37684	509181
29356	234012	30680	235033	34988	338133	37685	509182
29357	234014	30756	235065	34989	338134	37686	509183
29460	563159	30764	235067	34990	135409	37708	518485
29462	562738	30765	235070	35173	354965	37711	518547
29487	234138	31064	235349	35241	135412	37719	519469

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
37732	524540	39541	233154	40140	135429	41145	135446
37733	524541	39549	233169	40161	135430	41161	135447
38004	232834	39554	233179	40270	708253	41205	864067
38050	135423	39561	233194	40271	708252	41254	868350
38061	135424	39566	233203	40340	135433	41255	868371
38181	531668	39579	233230	40361	233675	41256	868372
38210	534429	39587	233246	40404	735868	41327	873058
38212	534431	39589	233250	40405	735869	41343	873167
38240	135425	39592	233256	40408	735891	41379	877568
38261	135426	39598	233268	40409	735892	41386	877630
38535	556966	39633	243335	40438	742348	41404	233780
38584	566703	39636	233307	40439	742350	41450	233801
38588	568127	39643	233317	40462	743517	41461	233803
38760	579879	39712	233354	40463	743518	41550	135449
38761	579880	39715	233360	40464	743519	41561	233842
38762	579893	39893	233496	40465	743520	41650	135452
38956	618144	39894	233499	40466	743541	41661	209589
39156	640804	39895	1786074	40478	743912	41732	899188
39186	645093	39896	233501	40479	743913	42050	135455
39202	680522	39897	233503	40481	743915	42061	233914
39210	648433	39901	233507	40482	743916	42250	233927
39211	648435	39904	226665	40505	756302	42261	233929
39250	232855	39916	223407	40512	757008	42540	135461
39275	232857	39917	219293	40594	769864	43004	233973
39280	135427	39944	233524	40604	233684	43050	233978
39341	675961	39945	233526	40640	135436	43061	233980
39342	675962	39947	233530	40661	237295	45404	233998
39366	678872	39950	233537	40724	793595	45440	135462
39395	232860	39958	233553	40792	802649	45474	234004
39397	232864	39960	233557	40840	135441	45478	88525
39398	232866	39964	233565	40861	233742	46040	135463
39401	232872	39966	233569	40870	826124	46061	234020
39406	232882	39970	233577	40888	828622	46548	234044
39413	232895	39984	252175	40889	829325	46551	135465
39426	232922	39985	233605	40900	831721	46561	234046
39431	232932	39986	265625	40904	233744	48040	135466
39439	232949	39995	233626	40945	135442	48061	234048
39444	232959	39996	233628	40969	837532	49504	234072
39463	232996	39997	233630	40974	233754	49550	135467
39468	233006	39998	233632	40994	840057	49561	209591
39473	233017	39999	233634	40995	840071	49650	234156
39478	233027	40086	693986	40997	840073	49661	209747
39510	244688	40087	693987	41004	233757	49850	135469
39515	233102	40088	693988	41045	135444	49861	142607
39523	233118	40089	693989	41061	135445	50965	135473
39528	233128	40104	233641	41104	233768	51001	234192

# Cross-Index of Legacy Item Number to IDH Number

205

Cross-Index of Legacy Item Number to IDH Number

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
51002	234194	51531	135479	60921	135511	83014	398433
51003	1786073	51572	234341	60931	135512	83015	398434
51004	234198	51580	88541	60941	135513	83019	398436
51005	234200	51605	234347	60943	209763	83020	473132
51006	234202	51606	209758	62005	234768	83022	398437
51007	160796	51607	234349	62015	234772	83024	398438
51008	234204	51608	234351	62040	135514	83025	398439
51009	234207	51609	234353	62070	135515	83032	398444
51011	234209	51817	209759	62085	234787	83038	475398
51031	135474	51831	135481	66010	209765	83045	398449
51041	234225	51845	135482	66040	135527	83069	398454
51048	234227	54505	234428	68005	1835212	83075	398455
51049	226696	54531	135486	68015	1835205	83086	420332
51050	1852755	54541	195662	68035	1835201	83094	398458
51074	234240	54941	1661866	68060	1835196	83104	398459
51084	234244	55441	135489	68090	1835206	83105	470411
51094	234246	56507	234438	75430	234981	83113	420338
51102	234248	56531	88551	75448	160802	83114	398461
51115	234251	56541	88552	75465	234984	83127	398465
51116	234253	56543	234440	76732	199012	83128	398466
51117	234255	56566	234442	76759	135541	83129	398467
51144	234259	56571	234444	76764	235005	83130	420341
51145	226801	56707	234451	76775	235009	83131	416033
51146	234262	56747	135491	76820	235018	83133	475441
51147	234263	56765	234458	76871	135542	83134	475442
51152	234269	56790	234469	77124	235028	83142	398469
51211	209750	56931	135492	77164	135543	83176	398470
51213	209752	56941	209605	77175	209768	83179	398471
51221	198792	58031	88565	79040	135544	83183	1377391
51242	209753	58730	135504	80206	235086	83200	1373425
51243	234280	58775	234590	80209	235092	83201	1377344
51245	303543	58791	234592	80964	235270	83206	1377777
51246	234282	59214	88567	81246	209795	83216	398479
51252	209754	59231	209761	81251	1906177	83217	398480
51269	234284	59241	88568	81252	1865406	83239	420348
51270	234286	59243	209762	82039	209802	83245	420350
51272	234288	59330	193996	82046	235479	83247	420351
51273	234290	59375	193997	82093	235487	83248	475498
51277	234292	59430	135506	82249	235502	83264	420356
51286	1852753	59475	193998	82251	209804	83267	420357
51299	234302	59530	160809	82253	235503	83269	420358
51346	234313	59575	193999	82255	209805	83274	416016
51360	234317	59830	234609	83000	398425	83277	416035
51387	234323	59875	135508	83001	398426	83279	420362
51388	234325	59891	135509	83006	398429	83308	420368
51517	209756	60905	234667	83007	398430	83316	420370

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
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83321	420372	97101	961819	97483	235617	98164	570564
83326	1863185	97111	88642	97484	235618	98165	585582
83328	420375	97112	88643	97541	548167	98166	570565
83330	398484	97113	88644	97572	237301	98167	585583
83332	1863184	97114	88645	97970	142645	98168	570566
83338	416015	97116	142635	97972	142646	98169	570567
83340	471918	97130	444643	98003	158531	98170	570568
83342	420377	97131	194420	98004	218283	98171	585584
83349	420379	97132	215996	98009	218280	98172	570569
83354	420381	97135	215846	98011	218278	98173	570570
83356	420382	97136	215848	98013	318654	98174	570571
83358	420383	97141	548168	98022	478490	98175	585585
83360	420384	97152	1275665	98033	420489	98176	570572
83365	420387	97207	88656	98034	420490	98177	585586
83368	420389	97208	88657	98035	420491	98178	570573
83372	475559	97215	135560	98036	420492	98179	569729
83374	475561	97216	303605	98037	420493	98180	570574
83394	420392	97221	88660	98039	478495	98181	606027
83398	420393	97222	88661	98040	419094	98192	677280
83400	420394	97223	88662	98041	420494	98193	739983
83675	420482	97224	88663	98050	504753	98196	585587
83676	420483	97225	88664	98061	570551	98197	570579
95551	235572	97226	88665	98062	544248	98198	585588
95555	235573	97227	88666	98063	544246	98199	855986
95724	235579	97228	88667	98064	505651	98200	585637
96092	209816	97229	142640	98065	570552	98201	570580
96102	235582	97230	142641	98066	544226	98208	570585
96121	303595	97231	142642	98067	505653	98209	570586
96131	303596	97232	142643	98068	505659	98210	570587
96153	236388	97233	88672	98069	569711	98211	545281
96321	209818	97244	88677	98070	505671	98212	570588
96322	269078	97245	88678	98071	606023	98213	570589
96332	235597	97248	218275	98074	506148	98214	585650
96363	235598	97261	88727	98080	506149	98215	570590
96373	235599	97262	218288	98082	506200	98216	569743
96392	235600	97263	218287	98084	534301	98217	570591
96433	235601	97264	218286	98085	585002	98218	542204
96443	209668	97294	508102	98090	764500	98219	570592
96495	209669	97412	235610	98100	693474	98220	662212
96604	235605	97413	209820	98114	585564	98221	855987
96675	428557	97422	235611	98115	506204	98222	542208
96676	428791	97423	209821	98122	506252	98223	570593
96677	432774	97443	235613	98125	506458	98224	542205
97001	88631	97453	235614	98127	506491	98225	570594
97006	88633	97463	235615	98128	606025	98226	585651

# Cross-Index of Legacy Item Number to IDH Number

LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
98227	570595	98283A	801476	98402	600979	98493	774634
98228	135564	98291A	801468	98403	600982	98494	774633
98229	570596	98299A	801460	98404	601,000	98495	717764
98230	542206	98314	583952	98405	601001	98496	757100
98231	570598	98315	583954	98406	830680	98497	774632
98232	570599	98316	569764	98408	752665	98498	774610
98233	570600	98318	590762	98413	630560	98499	717765
98234	585653	98319A	945900	98414	608966	98501	756316
98235	570601	98320	585888	98415	583808	98520	743155
98236	570602	98321	590776	98416	583955	98522	756315
98237	570603	98322	590777	98424	601003	98548	769914
98238	570604	98326	577150	98425	601007	98557	862865
98239	570605	98327	585942	98430	631391	98559	806314
98240	542209	98328	577151	98439	687636	98561	854801
98241	570606	98329	585943	98440	647174	98563	854803
98242	570607	98336	569768	98441	806034	98565	862864
98243	606028	98343	590994	98444	778273	98576	862863
98244	542220	98345	570628	98445	721277	98578	854804
98245	570608	98346	570629	98446	727052	98581	862861
98246	570609	98347	570630	98447	752667	98584	862850
98247	570610	98357	591001	98448	727051	98587	854800
98248	542222	98364	833984	98449	752666	98595	806038
98249	570611	98367	570635	98454	720225	98606	862749
98250	570612	98371	606051	98455	720230	98610	805478
98251	570613	98372	235622	98456	720173	98611	806854
98252	542224	98373	606052	98457	720174	98612	806855
98253	570614	98374	804261	98458	720175	98622	833940
98254	569745	98377	756477	98459	720177	98623	833982
98255	570615	98379	756475	98464	720222	98624	830710
98256	542229	98382	209676	98466	720223	98625	830709
98257	570616	98383	209824	98472	720228	98626	830708
98258	585654	98385	600941	98473	720227	98627	830707
98259	570617	98386	600947	98474	720226	98628	830706
98260	542230	98387	600951	98479	774656	98629	830705
98261	570618	98388	600955	98480	774655	98632	826190
98262	585655	98389	600957	98481	774654	98641	841636
98263	570619	98390	600958	98482	774652	98642	841635
98264	570620	98391	600959	98483	774651	98646	841639
98265	570621	98392	600971	98484	774640	98647	841631
98266	569746	98393	600972	98485	774639	98652	853836
98267	570622	98394	600973	98486	774638	98653	848088
98268	570623	98396	600974	98487	774658	98655	862849
98269	570624	98397	600975	98488	774657	98656	862839
98270	585656	98398	567209	98489	774636	98657	863232
98271	570625	98399	600976	98490	774635	98658	862838
98272	553444	98400	600977	98491	757103	98659	862837
98273	570626	98401	600978	98492	736396	98660	862834



LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER	LEGACY ITEM NUMBER	IDH NUMBER
98661	862831	980160	218334	984264	478557	986035	224019
98667	874905	981821	218330	984268	478561	986060	215995
98668	875472	981866	218328	984272	570646	986300	218300
98671	911007	981994	218327	984650	630561	986301	307033
98672	884683	982644	478510	984688	478570	989268	743219
98687	916050	982719	209685	984832	478574	989269	743220
98693	235625	982720	478513	985110	478581	989516	773794
98732	209825	982722	218323	985111	478582	989518	774127
98733	209826	982723	435042	985112	478583	989763	864176
98742	235626	982726	478516	985113	416691	989771	864180
98743	209827	982727	478517	985114	478584	989777	864513
98853	209681	982880	218322	985115	478585	989787	867896
98992	235628	983330	243343	985122	570665	989788	867895
99112	235631	983436	218483	985211	478587	989789	867897
99361	235632	983437	218315	985216	478588	989852	864512
99365	235633	983438	218312	985225	418307	997367	486729
99545	235637	983439	218311	985246	478600	998390	218293
99626	235638	983509	856044	985249	470572	998400	209688
99912	235641	984261	478554	985397	478603		
99913	219292	984262	478555	986000	209687		
99914	235642	984263	478556	986025	478604		

## Index by Chemistry

CHEMISTRY	PAGE NUMBER
<b>ACRYLICS</b>	
Two-Part	37, 38, 39
Two-Step	33, 34, 35
Specialty	27, 28, 70, 71
<b>ANAEROBICS</b>	
Gasketing Compounds	67,68, 69, 70, 71
Retaining Compounds	123, 124, 125, 126
Threadlockers	135, 136, 137, 138
Thread Sealants	143, 144, 145, 146
<b>CYANOACRYLATES</b>	
One-Part	7, 8, 9, 10, 157, 158, 159
Two-Part	8, 9
Light Cure	8, 9, 158, 159
<b>ELASTOMERS</b>	
One-Part	29, 30, 31, 32, 73, 74, 75, 76, 77
Two-Part	30, 31, 75
Light Cure	73, 77
<b>EPOXIES</b>	
One-Part	42, 44, 97, 98, 99, 100, 117, 119, 120, 161, 162
Two-Part	41, 42, 43, 44, 97, 98, 117, 118, 119, 120, 161, 163

CHEMISTRY	PAGE NUMBER
<b>HOT MELTS</b>	13, 14, 15, 16, 105, 106
<b>LIGHT CURE</b>	
Acrylics	19, 20, 21, 22, 153, 154, 155
Cyanoacrylates	8, 9, 20, 21, 157, 158, 159
Epoxies	21
Silicones	19, 20, 21, 101, 102, 103, 154, 155
<b>POLYURETHANES</b>	
One-Part	47, 48, 79, 81, 115, 116, 161, 162
Two-Part	47, 48, 97, 98, 99, 100, 115, 116, 161, 162
Hot Melts	13, 14, 15, 105, 106
<b>SILANE-MODIFIED POLYMERS</b>	
One-Part	29, 30, 31, 32
<b>SILICONES</b>	
One-Part	68, 73, 74, 75, 76, 77
Two-Part	101, 102, 103
Light Cure	101, 102, 103
<b>SOLVENT-BASED</b>	27, 28

# Cross-Index of New Product Name to Legacy Product Name

NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® EA 9035™ 4-MINUTE EPOXY	LOCTITE® FIXMASTER® 4-MINUTE EPOXY	LOCTITE® UK 3183™ Polyurethane Hardener	LOCTITE® 3183™ Hysol® Polyurethane Hardener	LOCTITE® AA 363™ Light Cure Adhesive	LOCTITE® 363™ Impruv® Light Cure Adhesive	LOCTITE® SI 5040™ RTV Silicone Potting Compound	LOCTITE® 5040™ RTV Silicone Potting Compound
LOCTITE® LB 8211™ Krytox® RFE Advanced PTFE Dry Lubricant	LOCTITE® Krytox® RFE Advanced PTFE Dry Lubricant	LOCTITE® UK 3184™ Polyurethane Adhesive Hardener	LOCTITE® 3184™ Hysol® Polyurethane Hardener	LOCTITE® AA 366™ Light Cure Adhesive	LOCTITE® 366™ Light Cure Adhesive	LOCTITE® SI 5045™ Flange Sealant	LOCTITE® 5045™ Flange Sealant
LOCTITE® LB 8213™ Krytox® RFE High Performance Lubricant	LOCTITE® Krytox® RFE PFPE High Performance Lubricant	LOCTITE® AA 3201™ Light Cure Adhesive	LOCTITE® 3201™ Light Cure Adhesive	LOCTITE® AA 3751™ Light Cure Adhesive	LOCTITE® 3751™ Litetak® Light Cure Adhesive	LOCTITE® SI 5050™ Silicone Adhesive Sealant	LOCTITE® 5050™ Fastgasket® Silicone Adhesive Sealant
LOCTITE® LB 8209™ Krytox® RFE PFPE Lubricant	LOCTITE® Krytox® RFE PFPE Lubricant	LOCTITE® AA 3211™ Light Cure Adhesive	LOCTITE® 3211™ Light Cure Adhesive	LOCTITE® 380™ Instant Adhesive	LOCTITE® 380™ Black Max® Instant Adhesive	LOCTITE® SI 5055™ Silicone Adhesive Sealant	LOCTITE® 5055™ Silicone Adhesive Sealant
LOCTITE® EA 0151™ Adhesive	LOCTITE® 0151™ Hysol® Epoxy Adhesive	LOCTITE® AA 324™ Structural Adhesive	LOCTITE® 324™ Structural Adhesive	LOCTITE® 382™ Instant Adhesive	LOCTITE® 382™ Tak Pak® Instant Adhesive	LOCTITE® SI 5056™ Silicone Adhesive Sealant	LOCTITE® 5056™ Silicone Adhesive Sealant
TECHNOMELT® 0430™ Hot Melt Adhesive	LOCTITE® 0430™ Hysol® SprayPac™ Polyshot™ Hot Melt Adhesive	LOCTITE® AA 325™ Structural Adhesive	LOCTITE® 325™ Structural Adhesive	LOCTITE® AA 3921™ Light Cure Adhesive	LOCTITE® 3921™ Light Cure Adhesive	LOCTITE® SI 5083™ Silicone Adhesive Sealant	LOCTITE® 5083™ Nuva-Sil® Silicone Adhesive Sealant
TECHNOMELT® 0450™ Hot Melt Adhesive	LOCTITE® 0450™ Hysol® SprayPac™ Polyshot™ Hot Melt Adhesive	LOCTITE® AA 326™ Adhesive	LOCTITE® 326™ Structural Adhesive	LOCTITE® AA 3922™ Light Cure Adhesive	LOCTITE® 3922™ Light Cure Adhesive	LOCTITE® SI 5091™ Silicone Potting Compound, High Adhesion	LOCTITE® 5091™ Nuva-Sil® Silicone Potting Compound, High Adhesion
TECHNOMELT® 1942™ Hot Melt Adhesive	LOCTITE® 1942™ Hysol® Hot Melt Adhesive	LOCTITE® AA 330™ Adhesive	LOCTITE® 330™ Depend® Adhesive	LOCTITE® AA 392™ Adhesive	LOCTITE® 392™ Structural Adhesive	LOCTITE® SI 5240™ Light Cure Adhesive	LOCTITE® 5240™ Nuva-Sil® Medical Device Sealant
LOCTITE® EA 1C™ Adhesive	LOCTITE® 1C™ Hysol® Epoxy Adhesive	LOCTITE® AA 3311™ Light Cure Adhesive	LOCTITE® 3311™ Light Cure Adhesive	LOCTITE® AA 3933™ Light Cure Adhesive	LOCTITE® 3933™ Light Cure Adhesive	LOCTITE® 5452™ Thread Sealant	LOCTITE® 5452™ Fast Cure Thread Sealant
TECHNOMELT® 1X™ Hot Melt Adhesive	LOCTITE® 1X™ Hysol® Hot Melt Adhesive	LOCTITE® AA 331™ Adhesive	LOCTITE® 331™ Structural Adhesive	LOCTITE® AA 3936™ Light Cure Adhesive	LOCTITE® 3936™ Light Cure Adhesive	TEROSON® MS 5510™ Adhesive/Sealant	LOCTITE® 5510™ Adhesive/Sealant
TECHNOMELT® 232™ Hot Melt Adhesive	LOCTITE® 232™ Hysol® Hot Melt Adhesive	LOCTITE® AA 3321™ Light Cure Adhesive	LOCTITE® 3321™ Light Cure Adhesive	LOCTITE® AA 3942™ Light Cure Adhesive	LOCTITE® 3942™ Light Cure Adhesive	TEROSON® MS 939™ Adhesive	LOCTITE® 5512™ Adhesive Sealant
TECHNOMELT® 236™ Hot Melt Adhesive	LOCTITE® 236™ Hysol® Hot Melt Adhesive	LOCTITE® AA 332™ Adhesive	LOCTITE® 332™ Structural Adhesive	LOCTITE® AA 3943™ Light Cure Adhesive	LOCTITE® 3943™ Light Cure Adhesive	TEROSON® MS 5570™ Adhesive	LOCTITE® 5570™ Adhesive
LOCTITE® AA 3035™ Adhesive	LOCTITE® 3035™ Structural Adhesive	LOCTITE® EA 3336™ Light Cure Adhesive	LOCTITE® 3336™ Light Cure Adhesive	LOCTITE® AA 3944™ Light Cure Adhesive	LOCTITE® 3944™ Light Cure Adhesive	TEROSON® MS 9360™ Adhesive	LOCTITE® 5572™ Adhesive
LOCTITE® AA 3060™ Structural Adhesive	LOCTITE® 3060™ Structural Adhesive	LOCTITE® AA 3341™ Light Cure Adhesive	LOCTITE® 3341™ Light Cure Adhesive	LOCTITE® AA 3971™ Light Cure Adhesive	LOCTITE® 3971™ Light Cure Adhesive	LOCTITE® MS 9399™ Adhesive, Part A	LOCTITE® 5590™ Adhesive, Part A
LOCTITE® AA 3100™ Light Cure Adhesive	LOCTITE® 3100™ Light Cure Adhesive	LOCTITE® AA 334™ Structural Adhesive	LOCTITE® 334™ Structural Adhesive	LOCTITE® AA 3972™ Light Cure Adhesive	LOCTITE® 3972™ Light Cure Adhesive	LOCTITE® MS 9399™ Adhesive, Part B	LOCTITE® 5590™ Adhesive, Part B
LOCTITE® AA 3103™ Light Cure Adhesive	LOCTITE® 3103™ Light Cure Adhesive	LOCTITE® EA 3355™ Light Cure Adhesive	LOCTITE® 3355™ Light Cure Adhesive	LOCTITE® AA 3974™ Light Cure Adhesive	LOCTITE® 3974™ Light Cure Adhesive	LOCTITE® 55™ Pipe Sealing Cord	LOCTITE® 55™ Pipe Sealing Cord
LOCTITE® AA 3104™ Light Cure Adhesive	LOCTITE® 3104™ Light Cure Adhesive	LOCTITE® UK 3364™ Adhesive	LOCTITE® 3364™ Urethane Adhesive/Potting Compound	LOCTITE® AA 3979™ Light Cure Adhesive	LOCTITE® 3979™ Light Cure Adhesive	LOCTITE® SI 5605™ /5606™/5607™ Series – Part A, 3.5 gallon	LOCTITE® 5600™ Series – Part A, 3.5 gallon
LOCTITE® AA 3105™ Light Cure Adhesive	LOCTITE® 3105™ Light Cure Adhesive	LOCTITE® UR 3370™ Adhesive/Sealant	LOCTITE® 3370™ Polyurethane Adhesive/Sealant	LOCTITE® EA 3982™ Adhesive	LOCTITE® 3982™ Hysol® Epoxy Adhesive	LOCTITE® SI 5605™ /5606™/5607™ Series – Part A, 575 lb.	LOCTITE® 5600™ Series – Part A, 575 lb.
LOCTITE® AA 3106™ Light Cure Adhesive	LOCTITE® 3106™ Light Cure Adhesive	LOCTITE® SI 3407™ Cure-in-Place Gasket	LOCTITE® 3407™ Optiloc™ Cure-in-Place Gasket	LOCTITE® EA 3985™ Adhesive	LOCTITE® 3985™ Hysol® Epoxy Adhesive	LOCTITE® SI 5600™ Silicone Sealant - Part A	LOCTITE® 5600™ Silicone Sealant - Part A
LOCTITE® AA 3107™ Light Cure Adhesive	LOCTITE® 3107™ Light Cure Adhesive	LOCTITE® AA 3491™ Light Cure Adhesive	LOCTITE® 3491™ Light Cure Adhesive	LOCTITE® 404™ Instant Adhesive	LOCTITE® 404™ Quick Set™ Instant Adhesive	LOCTITE® SI 5600™ Silicone Sealant - Part B	LOCTITE® 5600™ Silicone Sealant - Part B
LOCTITE® AA 3108™ Light Cure Adhesive	LOCTITE® 3108™ Light Cure Adhesive	LOCTITE® AA 3494™ Light Cure Adhesive	LOCTITE® 3494™ Light Cure Adhesive	TECHNOMELT® 4046™ Hot Melt Adhesive	LOCTITE® 4046™ Hysol® Hot Melt Adhesive	LOCTITE® SI 5600™ Silicone Sealant - Part A	LOCTITE® 5600™/5604™ Silicone Sealant - Part A
LOCTITE® AA 312™ Structural Adhesive	LOCTITE® 312™ Structural Adhesive	LOCTITE® AA 349™ Light Cure Adhesive	LOCTITE® 349™ Light Cure Adhesive	LOCTITE® HY 4090™ Structural Instant Adhesive	LOCTITE® 4090™ Instant Adhesive	LOCTITE® SI 5604™ Silicone Sealant - Part B	LOCTITE® 5604™ Silicone Sealant - Part B
LOCTITE® PE 3140™ A Epoxy Resin	LOCTITE® 3140™ Hysol® Epoxy Resin	LOCTITE® AA 3525™ Light Cure Adhesive	LOCTITE® 3525™ Light Cure Adhesive	LOCTITE® 4306™ Light Cure Adhesives	LOCTITE® 4306™ Flashcure® Light Cure Adhesives	LOCTITE® SI 5605™ Silicone Adhesive / Sealants	LOCTITE® 5605™ Silicone Adhesive / Sealants
LOCTITE® PE 3141™ A Epoxy Adhesive Resin	LOCTITE® 3141™ Hysol® Epoxy Resin	LOCTITE® AA 3526™ Light Cure Adhesive	LOCTITE® 3526™ Light Cure Adhesive	LOCTITE® 4310™ Light Cure Adhesive	LOCTITE® 4310™ Flashcure® Light Cure Adhesive	LOCTITE® SI 5606™ Silicone Adhesive / Sealants	LOCTITE® 5606™ Silicone Adhesive / Sealants
LOCTITE® PE 3142™ Epoxy Resin	LOCTITE® 3142™ Hysol® Epoxy Resin	LOCTITE® AA 352™ Light Cure Adhesive	LOCTITE® 352™ Light Cure Adhesive	LOCTITE® 4311™ Light Cure Adhesive	LOCTITE® 4311™ Flashcure® Light Cure Adhesive	LOCTITE® SI 5607™ Silicone Adhesive / Sealants	LOCTITE® 5607™ Silicone Adhesive / Sealants
LOCTITE® PE 3145™ A Epoxy Adhesive Resin	LOCTITE® 3145™ Hysol® Epoxy Resin	LOCTITE® AA 3554™ Light Cure Adhesive	LOCTITE® 3554™ Indigo™ Visible Light Cure Adhesive	LOCTITE® 444™ Instant Adhesive	LOCTITE® 444™ Tak Pak® Instant Adhesive	LOCTITE® SI 5611F™ Silicone Potting Compound	LOCTITE® 5611F™ Silicone Potting Compound
LOCTITE® PE 3162™ B Epoxy Hardener	LOCTITE® 3162™ Hysol® Epoxy Hardener	LOCTITE® AA 3555™ Light Cure Adhesive	LOCTITE® 3555™ Indigo™ Visible Light Cure Adhesive	LOCTITE® SI 5031™ Silicone Potting Compound	LOCTITE® 5031™ Nuva-Sil® Silicone Potting Compound	LOCTITE® SI 5611S™ Silicone Potting Compound	LOCTITE® 5611S™ Silicone Potting Compound
LOCTITE® PE 3163™ B Epoxy Hardener	LOCTITE® 3163™ Hysol® Epoxy Hardener	LOCTITE® AA 3556™ Light Cure Adhesive	LOCTITE® 3556™ Indigo™ Visible Light Cure Adhesive	LOCTITE® SI 5033™ Silicone Adhesive Sealant	LOCTITE® 5033™ Nuva-Sil® Silicone Adhesive Sealant	LOCTITE® SI 5620™ Silicone Potting Compound	LOCTITE® 5620™ Silicone Potting Compound
LOCTITE® PE 3164™ B Epoxy Hardener	LOCTITE® 3164™ Hysol® Epoxy Hardener	TECHNOMELT® PUR™ 3631™ Hot Melt Adhesive	LOCTITE® 3631™ Hysol® Hot Melt Adhesive	LOCTITE® SI 5039™ Silicone Adhesive Sealant	LOCTITE® 5039™ Nuva-Sil® Silicone Adhesive Sealant	LOCTITE® SI 5623™ Silicone Potting Compound	LOCTITE® 5623™ Silicone Potting Compound
LOCTITE® PE 3165™ Epoxy Hardener	LOCTITE® 3165™ Hysol® Epoxy Hardener					LOCTITE® SI 5625™ Silicone Potting Compound	LOCTITE® 5625™ Silicone Potting Compound

NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® SI 5640™ Silicone Potting Compound	LOCTITE® 5640™ Silicone Potting Compound
LOCTITE® SI 5699™ Grey, High Performance RTV Silicone Gasket Maker	LOCTITE® 5699™ Grey, High Performance RTV Silicone Gasket Maker
LOCTITE® AA 5810A™	LOCTITE® 5810A
LOCTITE® SI 587™ Blue, High Performance RTV Silicone Gasket Maker	LOCTITE® 587™ Blue, High Performance RTV Silicone Gasket Maker
LOCTITE® SI 5900™ Flange Sealant	LOCTITE® 5900™ Flange Sealant
LOCTITE® SI 5905™ Flange Sealant RTV Silicone	LOCTITE® 5905™ Flange Sealant RTV Silicone
LOCTITE® SI 5910™ Flange Sealant RTV Silicone	LOCTITE® 5910™ Flange Sealant RTV Silicone
LOCTITE® SI 5920™ Copper, High Performance RTV Silicone Gasket Maker	LOCTITE® 5920™ Copper, High Performance RTV Silicone Gasket Maker
LOCTITE® SI 5950™ Flange Sealants	LOCTITE® 5950™ Fastgasket™ Flange Sealants
LOCTITE® SI 5964™ Cure-in-Place Gasket	LOCTITE® 5964™ Procure™ Cure-in-Place Gasket
LOCTITE® SI 5970™ Flange Sealant	LOCTITE® 5970™ Alcoxy Gasket Maker
LOCTITE® SI 598™ Black High Performance RTV Silicone Gasket Maker	LOCTITE® 598™ Black
LOCTITE® SI 5999™ Flange Sealant	LOCTITE® 5999™ Flange Sealant
TECHNOMELT® 6009S™ Hot Melt Adhesive	LOCTITE® 6009S™ Hysol® Hot Melt Adhesive
LOCTITE® EA 608™ Adhesive	LOCTITE® 608™ Hysol® Epoxy Adhesive
LOCTITE® EA 615™ Adhesive	LOCTITE® 615™ Hysol® Epoxy Adhesive
LOCTITE® SF 7075™ Activator	LOCTITE® 7075™ Activator
LOCTITE® SF 7088™ Primer	LOCTITE® 7088™ Primer
LOCTITE® 7109™ II Accelerator	LOCTITE® 7109™ Tak Pak® II Accelerator
LOCTITE® SF 7113™ Accelerator	LOCTITE® 7113™ Accelerator
LOCTITE® 712™ Accelerator	LOCTITE® 712™ Tak Pak® Accelerator
LOCTITE® SF 713™ Accelerator	LOCTITE® 713™ Accelerator
LOCTITE® SF 7380™ Activator	LOCTITE® 7380™ Depend® Activator
LOCTITE® SF 7387™ Activator	LOCTITE® 7387™ Depend® Activator
TECHNOMELT® 740™ Hot Melt Adhesive	LOCTITE® 740™ Hysol® Hot Melt Adhesive
LOCTITE® 7452™ Accelerator	LOCTITE® 7452™ Tak Pak® Accelerator
TECHNOMELT® PA 7460™ Hot Melt Adhesive	LOCTITE® 7460™ Hysol® SprayPac™ Polysht™ Hot Melt Adhesive
LOCTITE® SF 7649™	LOCTITE® 7649™ Primer N™
LOCTITE® SF 768™ Clean Up Solvent	LOCTITE® 768™ X-NMS Cleanup Solvent
LOCTITE® 7700 LED Light Source	LOCTITE® 7700 LED Light Source II
LOCTITE® SF 7701™ Primer	LOCTITE® 7701™ Primer

NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® SF 770™ Primer	LOCTITE® 770™ Primer
TECHNOMELT® PA 7802™ Hot Melt Adhesive	LOCTITE® 7802™ Hysol® Hot Melt Adhesive
TECHNOMELT® PA 7804™ Hot Melt Adhesive	LOCTITE® 7804™ Hysol® Hot Melt Adhesive
TECHNOMELT® PA 7805™ Hot Melt Adhesive	LOCTITE® 7805™ Hysol® Hot Melt Adhesive
TECHNOMELT® PA 7809FR™ Hot Melt Adhesive	LOCTITE® 7809FR™ Hysol® Hot Melt Adhesive
TECHNOMELT® PA 7811™ Hot Melt Adhesive	LOCTITE® 7811™ Hysol® Hot Melt Adhesive
TECHNOMELT® PA 7901™ Hot Melt Adhesive	LOCTITE® 7901™ Hysol® Hot Melt Adhesive
LOCTITE® SF 7951™ Primer	LOCTITE® 7951™ Primer
LOCTITE® EA 9430™ Adhesive	LOCTITE® 9430™ Hysol® Epoxy Adhesive
LOCTITE® EA 9432NA™ Epoxy Adhesive	LOCTITE® 9432NA™ Hysol® Epoxy Adhesive
LOCTITE® EA 9460™ Adhesive	LOCTITE® 9460™ Hysol® Epoxy Adhesive
LOCTITE® EA 9462™ Adhesive	LOCTITE® 9462™ Hysol® Epoxy Adhesive
LOCTITE® AA A-671™	LOCTITE® A-671™ Structural Adhesive
LOCTITE® AA A-6750™ Structural Adhesive	LOCTITE® A-6750™ Structural Adhesive
LOCTITE® MR 5416™ All-Purpose Spray Adhesive	LOCTITE® All-Purpose Spray Adhesive
LOCTITE® SF 5408™ Belt Dressing & Conditioner	LOCTITE® Belt Dressing & Conditioner
LOCTITE® PC 6255™ Acrylic Pedestrian Grade	LOCTITE® Big Foot® Acrylic Pedestrian Grade
LOCTITE® PC 6253™ ACRYLIC PRIMER	LOCTITE® Big Foot® Acrylic Primer
LOCTITE® PC 6233™ Flexible Low Profile Exterior Grade	LOCTITE® Big Foot® Flexible Low Profile Exterior Grade
LOCTITE® PC 6261™ Heavy Duty Pedestrian Grade	LOCTITE® Big Foot® Heavy Duty Pedestrian Grade
LOCTITE® PC 6317™ Low Profile Pedestrian Grade	LOCTITE® Big Foot® Low Profile Pedestrian Grade
LOCTITE® PC 7643™ METAL PRIMER	LOCTITE® Big Foot® Metal Primer
LOCTITE® PC 6311™ Vehicular Grade	LOCTITE® Big Foot® Vehicular Grade
LOCTITE® PC 6315™ Zero V.O.C.	LOCTITE® Big Foot® Zero V.O.C.
LOCTITE® MR 5414™ Black Contact Adhesive	LOCTITE® Black Contact Adhesive
LOCTITE® LB C-200™ High Temperature Solid Film Lubricant	LOCTITE® C-200® High Temperature Solid Film Lubricant
LOCTITE® LB 8008™ C5-A®	LOCTITE® C5-A® Copper Anti-Seize Lubricant
LOCTITE® PC 7363™ Ceramic Tile Adhesive	LOCTITE® Ceramic Tile Adhesive
LOCTITE® SF 7631™ Paint Stripper	LOCTITE® Chisel® MC-Free Paint Stripper
LOCTITE® SF 790™ Paint Stripper (Methylene Chloride)	LOCTITE® Chisel® Paint Stripper (Methylene Chloride)
LOCTITE® SF 7693™ Cold Galvanizing Compound	LOCTITE® Cold Galvanizing Compound
LOCTITE® SF F720™ Tough Rubber Coating	LOCTITE® Color Guard® Coating

NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® MR 5412™ Contact Adhesive	LOCTITE® Contact Adhesive
LOCTITE® CoolMelt™ Hot Melt Adhesive	LOCTITE® CoolMelt™ Hysol® Hot Melt Adhesive
LB 8423™ Dielectric Grease	LOCTITE® Dielectric Grease
LOCTITE® EA E-00CL™ Adhesive	LOCTITE® E-00CL™ Hysol® Epoxy Adhesive
LOCTITE® EA E-00NS™ Adhesive	LOCTITE® E-00NS™ Hysol® Epoxy Adhesive
LOCTITE® EA E-05CL™ Adhesive	LOCTITE® E-05CL™ Hysol® Epoxy Adhesive
LOCTITE® EA E-05MR™ Adhesive	LOCTITE® E-05MR™ Hysol® Epoxy Adhesive
LOCTITE® EA E-120HP™ Adhesive	LOCTITE® E-120HP™ Hysol® Epoxy Adhesive
LOCTITE® EA E-20HP™ Adhesive	LOCTITE® E-20HP™ Hysol® Epoxy Adhesive
LOCTITE® EA E-20NS™ Adhesive	LOCTITE® E-20NS™ Hysol® Epoxy Adhesive
LOCTITE® E-214HP™ Adhesive	LOCTITE® E-214HP™ Hysol® Epoxy Adhesive
LOCTITE® EA E-30CL™ Adhesive, Glass Bonder	LOCTITE® E-30CL™ Hysol® Epoxy Adhesive, Glass Bonder
LOCTITE® EA E-30UT™ Adhesive	LOCTITE® E-30UT™ Hysol® Epoxy Adhesive
LOCTITE® EA E-40EXP™ Adhesive	LOCTITE® E-40EXP™ Hysol® Epoxy Adhesive
LOCTITE® EA E-40FL™ Adhesive	LOCTITE® E-40FL™ Hysol® Epoxy Adhesive
LOCTITE® EA E-60HP™ Adhesive	LOCTITE® E-60HP™ Hysol® Epoxy Adhesive
LOCTITE® EA E-60NC™ Adhesive, Electrically Non-Corrosive	LOCTITE® E-60NC™ Hysol® Epoxy Adhesive, Electrically Non-Corrosive
LOCTITE® EA E-90FL™ Adhesive	LOCTITE® E-90FL™ Hysol® Epoxy Adhesive
LOCTITE® EA E-910™ Epoxy Adhesive	LOCTITE® E-910™ Epoxy Adhesive
LOCTITE® SF 754™ Rust Treatment	LOCTITE® Extend® Rust Treatment
LOCTITE® LB 8219™ Extreme Pressure Grease	LOCTITE® Extreme Pressure Grease
LOCTITE® PC 9458™ Fast Set Grout	LOCTITE® Fixmaster® Fast Set Grout
LOCTITE® MR 2000™ Putty	LOCTITE® Fixmaster® 2000® Putty
LOCTITE® PC 7257™ Activator	LOCTITE® Fixmaster® Activator for Magna-Crete™ & Magna-Grout™
LOCTITE® PC 3466™ Castable Aluminum Liquid	LOCTITE® Fixmaster® Aluminum Liquid
LOCTITE® PC 7254™ Aluminum Putty	LOCTITE® Fixmaster® Aluminum Putty
LOCTITE® EA 7363™ Anchor Bolt Grout and Anchor Bolt Grout HP	LOCTITE® Fixmaster® Anchor Bolt Grout and Anchor Bolt Grout HP
LOCTITE® PC 9428™ Concrete Repair Epoxy	LOCTITE® Fixmaster® Concrete Repair Epoxy
LOCTITE® PC 9012™ Crack Filler NS	LOCTITE® Fixmaster® Crack Filler NS
LOCTITE® PC 6231™ Crack Filler SL	LOCTITE® Fixmaster® Crack Filler SL
LOCTITE® PC 9626™ Deep Pour Grout	LOCTITE® Fixmaster® Deep Pour Grout

NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® EA 445™ Fast Cure Epoxy Mixer Cups	LOCTITE® Fixmaster® Fast Cure Epoxy Mixer Cups
LOCTITE® EA 9017™ Fast Cure Epoxy	LOCTITE® Fixmaster® Fast Cure Epoxy Pak™
LOCTITE® PC 3965™ Fast Set Steel Epoxy	LOCTITE® Fixmaster® Fast Set Steel Epoxy
LOCTITE® EA 3473™ Fast Set Steel Putty	LOCTITE® Fixmaster® Fast Set Steel Putty
LOCTITE® MR Flex 80™ Liquid	LOCTITE® Fixmaster® Flex 80™ Liquid
LOCTITE® MR FLEX 80™ Urethane Repair Putty	LOCTITE® Fixmaster® Flex 80™ Putty
LOCTITE® MR 5023™ Flex Conveyor Belt Repair Kit	LOCTITE® Fixmaster® Flex™ Conveyor Belt Repair Kit
LOCTITE® PC 9416™ Floor Fill	LOCTITE® Fixmaster® Floor Fill
LOCTITE® PC 7204™ High Performance Quartz	LOCTITE® Fixmaster® High Performance Quartz
LOCTITE® PC 9410™ High Strength, Rapid Setting Concrete Repair Material	LOCTITE® Fixmaster® Magna-Crete™
LOCTITE® PC 9620™ High Strength, Rapid Setting Grout and Concrete Repair	LOCTITE® Fixmaster® Magna-Grout™
LOCTITE® L PC 7202™ Marine Chocking	LOCTITE® Fixmaster® Marine Chocking
LOCTITE® EA 3463™ 10 Minute Repair Epoxy	LOCTITE® Fixmaster® Metal Magic Steel™
LOCTITE® PC 7393™ Rapid Rubber Repair Urethane	LOCTITE® Fixmaster® Rapid Rubber Repair Urethane
LOCTITE® EA 3471™ Stainless Steel Putty	LOCTITE® Fixmaster® Stainless Steel Putty
LOCTITE® EA 3472™ Steel-Filled Castable Epoxy	LOCTITE® Fixmaster® Steel Liquid
LOCTITE® EA 3471™ Steel Putty	LOCTITE® Fixmaster® Steel Putty
LOCTITE® PC 7257™ Summer Additive	LOCTITE® Fixmaster® Summer Additive for Magna-Crete™ and Magna-Grout™
LOCTITE® PC 9422™ Super Grout	LOCTITE® Fixmaster® Super Grout
LOCTITE® EA 3478™ Superior Metal	LOCTITE® Fixmaster® Superior Metal
LOCTITE® EA 9480™ Underwater Repair Epoxy	LOCTITE® Fixmaster® Underwater Repair Epoxy
LOCTITE® PC 7641™ Water-Based Epoxy Primer/Sealer	LOCTITE® Fixmaster® Water-Based Epoxy Primer/Sealer
LOCTITE® PC 7222™ Nordbak® Wear Resistant Putty	LOCTITE® Fixmaster® Wear-Resistant Putty
LOCTITE® PC 7257™ Winter Additive	LOCTITE® Fixmaster® Winter Additive for Magna-Crete™ and Magna-Grout™
LOCTITE® LB 8014™	LOCTITE® Food Grade Anti-Seize
LOCTITE® LB 8104™ Food Grade Grease	LOCTITE® Food Grade Grease
LOCTITE® PC 3967™ Stripped Thread Repair Kit	LOCTITE® Form-A-Thread® Stripped Thread Repair Kit
LOCTITE® LB 8040™ Fast Acting Corrosion Release	LOCTITE® Freeze & Release
LOCTITE® LB 8421™ Gear/Chain Lube	LOCTITE® Gear, Chain and Cable Lubricant
LOCTITE® LB 8504™ Anti-Seize	LOCTITE® Graphite-50™ Anti-Seize

# Cross-Index of New Product Name to Legacy Product Name

NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME	NEW PRODUCT NAME	LEGACY PRODUCT NAME
LOCTITE® AA H3000™ Adhesive	LOCTITE® H3000™ Structural Adhesive	LOCTITE® EA M-121HP™ Epoxy Adhesive	LOCTITE® M-121HP™ Hysol® Epoxy Adhesive	LOCTITE® PC 9313™ High Impact Wearing Compound	LOCTITE® Nordbak® High Impact Wearing Compound	LOCTITE® SI 593™ Silicone Adhesive Sealant	LOCTITE® Superflex® RTV Silicone Adhesive Sealant
LOCTITE® AA H3101™ Adhesive	LOCTITE® H3101™ Structural Adhesive	LOCTITE® EA M-21HP™ Epoxy Adhesive	LOCTITE® M-21HP™ Hysol® Epoxy Adhesive	LOCTITE® PC 7234™ High Temperature Brushable Ceramic	LOCTITE® Nordbak® High Temperature Brushable Ceramic	LOCTITE® SI 594™ Silicone Adhesive Sealant	LOCTITE® Superflex® RTV Silicone Adhesive Sealant
LOCTITE® AA H3151™ Structural Adhesive	LOCTITE® H3151™ Structural Adhesive	LOCTITE® EA M-31CL™ Epoxy Adhesive	LOCTITE® M-31CL™ Hysol® Epoxy Adhesive	LOCTITE® PC 7303™ High Temperature Pneu-Wear	LOCTITE® Nordbak® High Temperature Pneu-Wear	LOCTITE® SI 595™ Silicone Adhesive Sealant	LOCTITE® Superflex® RTV Silicone Adhesive Sealant
LOCTITE® AA H3300™ Adhesive	LOCTITE® H3300™ Structural Adhesive	LOCTITE® LB 8023™ Marine Grade Anti-Seize	LOCTITE® Marine Grade Anti-Seize	LOCTITE® PC 7230™ High Temperature Wearing Compound	LOCTITE® Nordbak® High Temperature Wearing Compound	LOCTITE® SI 5015™ Blue Silicone Adhesive	LOCTITE® Superflex® RTV Silicone Adhesive Sealant – Blue
LOCTITE® AA H4000™ Structural Adhesive	LOCTITE® H4000™ Structural Adhesive	LOCTITE® PC 9660™ Heavy Duty Rustproofing	LOCTITE® Maxi-Coat™	LOCTITE® PC 9331™ Low Odor Wearing Compound	LOCTITE® Nordbak® Low Odor Wearing Compound	LOCTITE® SI 5019™ Blue Silicone Adhesive	LOCTITE® Superflex® RTV Silicone Adhesive Sealant – Blue
LOCTITE® AA H4100™ Structural Adhesive	LOCTITE® H4100™ Structural Adhesive	LOCTITE® MR 5426™ Maximum Strength Headliner Adhesive	LOCTITE® Maximum Strength Headliner Adhesive	LOCTITE® PC 7317™ Nordbak® Pneu-Wear	LOCTITE® Nordbak® Pneu-Wear	LOCTITE® SI Green RTV Silicone Adhesive	LOCTITE® Superflex® RTV Silicone Adhesive Sealant Equipment Green
LOCTITE® AA H4200™ Structural Adhesive	LOCTITE® H4200™ Structural Adhesive	LOCTITE® LB 8017™ Moly Dry Film Lubricant	LOCTITE® Moly Dry Film Lubricant	LOCTITE® PC 7388™ Ultra-High Temperature Wearing Compound	LOCTITE® Nordbak® Ultra-High Temperature Wearing Compound	LOCTITE® Thread Seal Tape	LOCTITE® Thread Seal Tape with PTFE
LOCTITE® AA H4500™ Adhesive	LOCTITE® H4500™ Structural Adhesive	LOCTITE® LB 8012™	LOCTITE® Moly Paste	LOCTITE® PC 7218™ Wearing Compound	LOCTITE® Nordbak® Wearing Compound	LOCTITE® 5113™	LOCTITE® Thread Sealant with PTFE
LOCTITE® AA H4800™ Adhesive	LOCTITE® H4800™ Structural Adhesive	LOCTITE® LB 8700™ Anti-Seize	LOCTITE® Moly-50™ Anti-Seize	LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser	LOCTITE® ODC-Free Cleaner & Degreaser	LOCTITE® SI 5109™ RD Silicone Adhesive	LOCTITE® Tile Bond Red, High Temp RTV Silicone Adhesive Sealant
LOCTITE® AA H5004™ Adhesive	LOCTITE® H5004™ Structural Adhesive	LOCTITE® N-1000™ High Purity Anti-Seize	LOCTITE® N-1000™ High Purity Anti-Seize	LOCTITE® LB 8711™ Penetrating Oil	LOCTITE® Penetrating Oil	LOCTITE® UK U-05FL™ Adhesive	LOCTITE® U-05FL™ Hysol® Urethane Adhesive
LOCTITE® AA H8000™ Adhesive	LOCTITE® H8000™ Structural Adhesive	LOCTITE® LB N-5000™ High Purity Anti-Seize	LOCTITE® N-5000™ High Purity Anti-Seize	LOCTITE® 5117™	LOCTITE® Pipe Joint Compound	LOCTITE® UK U-09FL™ Adhesive	LOCTITE® U-09FL™ Hysol® Urethane Adhesive
LOCTITE® AA H8000™ Adhesive	LOCTITE® H8000™ Structural Adhesive	LOCTITE® LB 8013™ High Purity Anti-Seize	LOCTITE® N-7000™ High Purity Anti-Seize	LOCTITE® SF 7635™ Pro Strength Degreaser	LOCTITE® Pro Strength Degreaser	LOCTITE® UK U-09LV™ Adhesive	LOCTITE® U-09LV™ Hysol® Urethane Adhesive
LOCTITE® AA H8010™ Structural Adhesive	LOCTITE® H8010™ Structural Adhesive	LOCTITE® SF 7840™ Biodegradable Cleaner & Degreaser	LOCTITE® Natural Blue® Biodegradable Cleaner & Degreaser	LOCTITE® SF 7611™ Pro Strength Parts Cleaner	LOCTITE® Pro Strength Parts Cleaner	LOCTITE® UR 7001™	LOCTITE® Gray Urethane Sealant
LOCTITE® AA H8100™ Adhesive	LOCTITE® H8100™ Structural Adhesive	LOCTITE® SF 7840™ Fragrance-Free Biodegradable Cleaner & Degreaser	LOCTITE® Natural Blue® Biodegradable Cleaner & Degreaser (Fragrance-Free)	LOCTITE® SF 137DA™ Pro Strength Varnish Remover	LOCTITE® Pro Strength Varnish Remover	LOCTITE® LB 8632™ Clear High Performance Synthetic Grease	LOCTITE® ViperLube® Clear High Performance Synthetic Grease
LOCTITE® AA H8100™ Adhesive	LOCTITE® H8100™ Structural Adhesive	LOCTITE® LB 771™	LOCTITE® Nickel Anti-Seize	LOCTITE® 101™ Quick Service Toolkit	LOCTITE® Quick Service Toolkit	LOCTITE® LB 8108™ High Performance Synthetic Grease	LOCTITE® ViperLube® High Performance Synthetic Grease
LOCTITE® AA H8500™ Adhesive	LOCTITE® H8500™ Structural Adhesive	LOCTITE® LB 8507™	LOCTITE® Nickel Anti-Seize	TECHNOMELT® QuickPac™ Hot Melt Adhesive	LOCTITE® QuickPac™ Hysol® Hot Melt Adhesive	LOCTITE® LB 8036™ White Hi-Temp Anti-Seize	LOCTITE® ViperLube® High Performance Synthetic Grease
LOCTITE® AA H8500™ Adhesive	LOCTITE® H8500™ Structural Adhesive	LOCTITE® SF 7633™ Non-Chlorinated Parts Cleaner	LOCTITE® Non-Chlorinated Parts Cleaner	LOCTITE® 249™ Blue Threadlocker Tape	LOCTITE® QuickTape™ 249™ Blue Threadlocker Tape	LOCTITE® LB 8042™ White Lithium Grease	LOCTITE® White Lithium Grease
LOCTITE® AA H8600™ Adhesive	LOCTITE® H8600™ Structural Adhesive	LOCTITE® PC 7228™ Nordbak® Brushable Ceramic	LOCTITE® Nordbak® Brushable Ceramic and Thin Mil Brushable Ceramic	LOCTITE® 454™ Instant Adhesive	LOCTITE® QuickTite® Instant Adhesive	LOCTITE® LB 8044™	LOCTITE® White Lithium Grease
LOCTITE® AA H8610™ Structural Adhesive	LOCTITE® H8610™ Structural Adhesive	LOCTITE® PC 7228™ Nordbak® Brushable Ceramic	LOCTITE® Nordbak® Brushable Ceramic and Thin Mil Brushable Ceramic	LOCTITE® LB 8801™ Silicone Lubricant	LOCTITE® Silicone Lubricant	TEROSON® EP 5089™	Terokal® 5089™ Structural Adhesive
LOCTITE® AA H8700™ Structural Adhesive	LOCTITE® H8700™ Structural Adhesive	LOCTITE® PC 7228™ Nordbak® Brushable Ceramic	LOCTITE® Nordbak® Brushable Ceramic and Thin Mil Brushable Ceramic	LOCTITE® LB 8060™	LOCTITE® Silver Grade Anti-Seize	TEROSON® MS 9380™	TEROSON® 9380™
LOCTITE® LB 8070™	LOCTITE® Heavy Duty Anti-Seize	LOCTITE® PC 9628™ Castable Wearing Compound	LOCTITE® Nordbak® Castable Wearing Compound	LOCTITE® LB 8150™	LOCTITE® Silver Grade Anti-Seize	TEROSON® MS 9320™	TEROSON® 9320™ SuperFast
LOCTITE® LB 8009™	LOCTITE® Heavy Duty Anti-Seize	LOCTITE® PC 7319™ Nordbak® Chemical Resistant Coating	LOCTITE® Nordbak® Chemical-Resistant Coating	LOCTITE® LB 8151™	LOCTITE® Silver Grade Anti-Seize	TEROSON® PU 8517™ Glass Primer	Terostat® 8517 H Glass Primer
LOCTITE® SF 7607™ Heavy-Duty Rubberized Undercoating	LOCTITE® Heavy-Duty Rubberized Undercoating	LOCTITE® PC 7357™ Combo Bead Wearing Compound	LOCTITE® Nordbak® Combo Bead Wearing Compound	LOCTITE® LB 8713™ Super Penetrating Oil	LOCTITE® Solvo-Rust® Super Penetrating Oil	TEROSON® PU 8519™ P Primer/Activator	Terostat® 8519 P Primer/Activator
LOCTITE® High Performance LB N-5000™ High Purity Anti-Seize	LOCTITE® High Performance N-5000™ High Purity Anti-Seize	LOCTITE® PC 7455™ Fast Cure Pneu-Wear	LOCTITE® Nordbak® Fast Cure Pneu-Wear	LOCTITE® SI 5049™ Silicone Sealant	LOCTITE® SpeedSeal™ Silicone Sealant	TEROSON® PU 8599™ Direct Glazing Sealant	Terostat® 8599 Direct Glazing Adhesive
LOCTITE® EQ HM22 Hot Melt Dispenser	LOCTITE® Hysol® 175 Hot Melt Dispenser	LOCTITE® PC 9599™ Fast Cure Wearing Compound	LOCTITE® Nordbak® Fast Cure Wearing Compound	LOCTITE® SI 5011™ Clear Silicone Adhesive	LOCTITE® Superflex® Non-Corrosive RTV Clear Silicone Adhesive Sealant	TEROSON® PU 9096™ PL Direct Glazing Sealant	Terostat® 9096 PL Direct Glazing Adhesive
LOCTITE® SI 5900® Instant Gasket	LOCTITE® Instant Gasket			LOCTITE® SI 596™ RD Silicone Adhesive Sealant	LOCTITE® Superflex® Red High Temp RTV Silicone Adhesive Sealant		
LOCTITE® SI 5075™ Insulating & Sealing Wrap	LOCTITE® Insulating & Sealing Wrap						
LOCTITE® UK M-06FL™ Urethane Adhesive	LOCTITE® M-06FL™ Hysol® Urethane Adhesive						

# – Notes –

# - Notes -

# THE PROBLEM SOLVER

A Quick Reference Guide to the Most Common Maintenance Problems

<b>PROBLEM</b>	<b>SOLUTION</b>
Rust, corrosion, galling, or seizing on metal threaded and unthreaded assemblies	Anti-Seize Compounds
Slippery pedestrian/vehicular areas	Anti-Slip Coatings
Damaged conveyor belts	Belt Repair/Urethanes
Fastening and joining	Bonding – Acrylic, Cyanoacrylate, Epoxy & Urethane, Hot Melt
Worn surfaces/damaged parts	Epoxies
Cracked floors, restoring old concrete, bonding to concrete/set anchor bolts, mount equipment	Flooring & Grout
Leaks – gasket, oil, transmission, coolant	Gasketing & Sealing
Friction, heat, or wear between solid metal surfaces	Lubricants
Backlash, key wallowing, spun bearings, shaft alignment, wear	Retaining Compounds
Vibrational loosening	Threadlocking
Leaks – air, hydraulic, fouled valves	Thread Sealing
Worn or corroded surfaces – material handling equipment	Wearing Compounds



# The Adhesive Sourcebook

2017 VOLUME 20

*Your Source for*

## LOCTITE® PRODUCTS FOR DESIGN, ASSEMBLY, MANUFACTURING AND MAINTENANCE

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Visit us on the web at  
[na.henkel-adhesives.com/loctite](http://na.henkel-adhesives.com/loctite)  
for immediate access to:

- Distributor Information
- Material Safety Data Sheets
- Technical Data Sheets
- Product Application Assistance
- Literature and our e-Catalog

**LOCTITE® is the  
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and maintenance.**

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Engineering Adhesives**

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Mississauga, Ontario, Canada L5N 6C3  
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Fax: 905-814-5391  
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### MEXICO & CENTRAL AMERICA

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To place an order: Tel: 52-55-3300-3644  
Fax: 52-55-3300-3019  
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Tel: 506-2277-4800  
Fax: 506-2277-4883  
[www.loctite.com.mx](http://www.loctite.com.mx)

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Jd. Canhema, Diadema  
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Fax: 55-11-3205-8887  
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