

THREADLOCKING Locking of threaded fasteners

- » PREVENTS LOOSENING FROM SHOCK AND VIBRATION
- » SINGLE COMPONENT CLEAN AND EASY TO APPLY
- » CAN BE USED ON VARIOUS SIZES OF FASTENERS REDUCES INVENTORY COSTS
- » FILLS GAP BETWEEN THREADS AND UNITIZES THE ASSEMBLY
- » STOPS RUST AND CORROSION



► ARE THE PARTS ALREADY ASSEMBLED?

Helpful Hints:

• Clean parts with LOCTITE® SF 7070 ODC-Free Cleaner and Degreaser before applying the adhesive.

• If the threadlocker will be applied below 5°C, pre-treat with LOCTITE® 7649 Primer N.

· If the parts were in contact with aqueous washing solutions or cutting fluids that leave a protective layer on the surface, wash with hot water before use.

YES

Wicking - Green

► HENKEL SOLUTIONS	LOCTITE® 290
Fastener Size	1/16" TO 1/2" (M2 TO M12)
Strength	High
Cure Time (Fixture/Full Strength)*	20 min./24 hr.
Breakaway/Prevail Torque (N.m)	10/29
Temperature Resistance for Continuous Service	150°C

Package Size & IDH

50 ml bottle - 531724 250 ml bottle - 848069

^{*} Typical value @ 22°C

ADDITIONAL PRODUCTS				
Name	Strength/ Color	Breakaway/Prevail Torque (N.m)	Features	
LOCTITE® 220	Low - Blue	9/19	Removable grade, wicking, for small threads of 1/4" (M6) or smaller	
LOCTITE® 270	High - Red	26/36	Fasteners up to 3/4" (M20)	
LOCTITE® 271	High - Red	28/31	Fasteners up to 1" (Up to M25)	
LOCTITE® 272	High - Orange	22/24	High Temp up to 11/2" (M36)	



Recommended for locking pre-assembled fasteners, i.e. instrumentation screws. electrical connectors, and set screws. Also seals porosities in welds and metal parts.

Use LOCTITE® Primer to:

- 1. Activate inactive surfaces. 2. Speed cure times for faster
- return to service. 3. Speed curing through larger
- gaps and deep threads. 4. Substantially speed cure times on cold parts.
- 5. Act as a cleaning agent.





What strength do you require?

Medium - Blue

High - Red

LOCTITE' 263 (Up)

Up to 1"

High

10 min./24 hr.

Permanent - Red

LOCTITE 277

For large bolts > 7/8" (>20mm)

Permanent

60 min./24 hr.

31/31

150°C

50 ml bottle - 531723

250 ml bottle - 531722

Oil tolerant

	- X
22	LOCTITE*

Up to 1/4" (Up to M6)

10 min./24 hr. 6/3

50 ml bottle - 848063

150°C

250 ml bottle - 848062

Low - Purple

LOCTITE'

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.



1/4" to 3/4" (M6 to M20) Medium 10 min./24 hr. 20/7 180°C

> 10 ml bottle - 1427418 50 ml bottle - 1367282 250 ml bottle - 531707 1 litre bottle - 833788



With improved oil tolerance, LOCTITE® 243 Threadlocker is effective on all types of metal threaded fasteners. Prevents loosening on vibrating parts such as pump, motor mounting bolts, gear boxes, or presses. Removable with hand tools.





Engineered to cure consistently on a variety of metals, despite minor surface contaminants. Works on steel, stainless steel and most plated fasteners. Tolerates thread lubrication, anticorrosion and protection fluids. Heat required for removal.



High strength adhesive for locking and sealing large bolts and studs 1" (25 mm) or larger in diameter. Heat may be required to weaken bond before parts can be disassembled.

Name	Color	Viscosity	Base	On-Part Life	Dry Time	Package Size & IDH
7649 Primer N	Clear/Green	2	Acetone	30 days	30 to 70 seconds	100 ml - 849297
7471 Primer T	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	100 ml - 849296

ner is optional with: ve surfaces: Brass, copper, ize, iron, soft steel, nickel.

ner is required with: tive surfaces: Aluminum,

nless steel, magnesium, zinc, k oxide, cadmium, titanium,









THREAD SEALING

- » LIQUIDS WILL NOT CREEP, SHRINK, SHRED OR BLOCK SYSTEMS (INCLUDING FILTERS)
- » DISASSEMBLY CAN BE ACHIEVED EASILY WITH BASIC HAND TOOLS
- » REPLACES TAPES AND PASTES

► ARE THE PARTS METAL OR PLASTIC?

- If the sealant (LOCTITE* 545 Thread Sealant, LOCTITE* 565 Thread Sealant, LOCTITE* 567 Thread Sealant, or LOCTITE® 561 Pipe Sealant) will be applied below 5°C, pre-treat with LOCTITE® 7649 Primer N.
- All parts must be clean and dry before sealing use LOCTITE® SF 7070 ODC-Free Cleaner and Degreaser.

PLASTIC AND/ OR METAL

Cord

THE RESERVE OF THE PARTY OF THE	
HENKEL SOLUTIONS	LOCTITE® 55
Description	Cord
Maximum Thread Size	4" (10.16 cm)
Temperature Resistance	150°C
Maximum Pressure Resistance (N/mm²)/Cure Time	10,000 psi (68.9)/instant
Substrate to be Sealed	Metal, Plastic or Both
Instant Low Pressure Seal	Yes

Package Size & IDH

150 metres - 1752446

ADDITIONAL PRODUCTS		
Name	Features	
LOCTITE® 572	Easy application by hand. Slow curing. For use on construction pipe sealing.	
LOCTITE® 545	Low strength, fast curing for hydraulic / Pneumatic fittings.	



Can be safely applied on metal and plastic threaded fittings. Potable water: NSF/ANSI 61 UL Listed and Ceritified to CSA



Are the threads fine or coarse?

Fine

Coarse

LOCTITE® 542 (Hydraulic & Pneumatic)	LOCTITE® 565	LOCTITE® 567 (Up)	LOCTITE® 577 Up
Brown Liquid	White to off White Paste	White Paste	Yellow Paste
Up to 3/4" (1.90 cm)	Up to 2" (5.08 cm)	3" (7.62 cm)	Up to 3" (7.62 cm)
150°C	150°C	204°C	130°C
10,000 psi (68.9)/24 hrs.	10,000 psi (68.9)/72 hrs.	10,000 psi (68.9)/72 hrs.	10,000 psi (68.9)/72 hrs.
Metal	Metal	Stainless Steel, Aluminum	Metal
No	Yes	Yes	No



50 ml bottle - 848735

250 ml bottle - 848736

Recommended for fine threaded fittings as used in hydraulic and pneumatic installations and small fittings in general. Carries German DVGW approval (NG-5146 AR 0855) Meets BS 6956 type A for sealing gas fittings. **



50 ml bottle - 1751917

250 ml bottle - 1752552

A general-purpose instant sealant for tapered and straight/ tapered fittings.



50 ml bottle - 1752537

250 ml bottle - 1752545

Withstands temperatures to 204°C with excellent solvent resistance. Locks and seals tapered pipe threads and fittings, including high pressure applications. Disassembles with hand tools.



50 ml tottle tube - 2121780

250 ml tottle tube - 2121367

Medium strength, general purpose sealant for use on coarse, threaded components.

** All approvals are region specific. Please contact your Henkel Sales Representative for further information.









GASKETING Sealing and Flanges

- » PARTS CAN BE DISASSEMBLED EASILY EVEN AFTER EXTENDED SERVICE



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

Helpful Hints:

- · If there are traces of old gasket left on the parts to be sealed, clean with LOCTITE® SF 790 Chisel Gasket Remover.
- All parts must be clean and dry before sealing use LOCTITE® SF 7070 ODC-Free Cleaner and Degreaser.
- · Anaerobic products cure between metal surfaces with the absence of air.

NO

Are you sealing a rigid or a stamped flange?

Rigid

▶ HENKEL SOLUTIONS LOCTITE 518 (Up) LOCTITE® 510 Color Pink Red Gasket Type Formed-in-place Formed-in-place Gap Fill 0.010" (0.25 mm) 0.010" (0.25 mm) Cure Method Anaerobic Anaerobic Fixture/Cure Time N.A./24 hrs. N.A./24 hrs. Temperature Resistance 204°C/N.A. 150°C/N.A. (Continuous/Intermittent) Instant Seal Excellent Excellent Water/Glycol Resistance Excellent Excellent 50ml tottle tube - 848390 50ml tottle tube - 2118119 Package Size & IDH 250ml tottle tube - 848731

ADDITIONAL PRODUCTS				
Name Features				
LOCTITE" 515 Gasket Eliminator Flange Sealant	For flexible applications. Cure speed: Unprimed - 1 to 12 hours. Primed - 15 minutes to 2 hours.			
LOCTITE® 790 Chisel Gasket Remover	Solvent. Dry time: Leave on surface for 5 to 10 minutes. Wipe/scrape clean.			
LOCTITE" SI 5920	Designed for high temperature resistance and electrical insulating applications. Temperature resistance upto 360°C.			



300ml cartridge - 910888

High temperature. Product has a temperature range to 204°C with excellent solvent and chemical resistance. Makes or dresses gaskets in rigid assemblies. Eliminates gasket compression set.



Recommended for use on rigid iron, steel and aluminum flanges. Spray LOCTITE® SF 7649 Primer N on only one surface.

LOCTITE® 574

Red Formed-in-place

0.010" (0.25 mm)

Anaerobic

N.A./24 hrs.

250ml tottle tube - 2118117

0.250" (6.35 mm)

Moisture (RTV)

50 min. (Skin formation)

204°C/250°C

Excellent

150°C/N.A.

Excellent

5oml tottle tube - 848739

250ml tottle tube - 848734



Recommended for sealing rigid & semi-rigid metal flanges. Fast curing. Gives instant sealing.

LOCTITE® SI 587

Blue

Formed-in-place

Excellent

Excellent

95g tube - 1266356 300ml cartridge - 1246389

Red

0.250" (6.35 mm)

Moisture (RTV)

50 min. (Skin formation)

316°C

Excellent

Excellent

300ml cartridge • 317667

Stamped

LOCTITE® SI 596

Formed-in-place

Black Formed-in-place

LOCTITE® SI 5900

0.240" (6 mm)

Moisture (RTV)

20 min. (Skin formation)

204°C/N.A.

Excellent Excellent

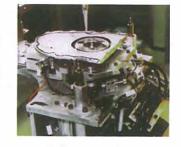
300ml cartridge - 1257126



All types of flanges including stamped sheet metal. Designed for superior bonding properties to oil contaminated metals.



High temperature silicone sealant makes the repair of industrial furnaces, ovens, boilers, exhaust stacks, high temperature stacks, ducting and heating elements.



Superior flexibility, withstand high relative joint movement. High adhesion, gives instant seal. Low odor, Low volaticity, Noncorrosive.











RETAINING Securing Cylindrical Assemblies

▶ IS THE ASSEMBLY BADLY WORN?

- If the retaining compound will be applied below 5° C, pre-treat with LOCTITE* 7649 Primer N.
- All parts must be clean and dry before sealing use LOCTITE® SF 7070 ODC-Free Cleaner and Degreaser.
- If the parts have been in contact with washing or cutting fluids containing nitrates, wash with hot water.

YES - GAPS UP TO 0.020" (0.5 MM)

LOCTITE [®] 660
High
3,335 psi (23)
Up to 0.020" (0.5 mm)
150°C
20 min./24 hr.

Package Size & IDH 50ml bottle - 1752417

* Requires heat cure to achieve temperature resistance

ADDITIONAL PRODUCTS		
Name	Features	
LOCTITE' 680 (Up)	Gives best resistance to dynamic, axial and radial loads. Recommended for retaining shafts, gears, pulleys, and similar cylindrical parts.	
LOCTITE' 620	Particularly suitable for applications where temperature resistance up to 200°C is required. Requires heat cure to achieve temperature resistance.	
LOCTITE' 603	For close-fitting parts (gap up to 0.1 mm) with light contamination. Typical applications include retaining roller bearings or oil impregnated bushings into housings.	



Used for repairing worn coaxial parts without remachining; enables reuse of worn bearing seats, keys, splines, tapers, or for retaining shims.





NO - GAPS TO 0.015" (0.25 MM)

Do you require low, medium or high strength?

Low Strength

Medium Strength

High Stength

High Viscosity

Low Viscosity

LOCTITE 648 (Up)

High

4,480 psi (31)

Up to 0.006" (0.15 mm)

180°C

10 min./24 hr.

LOCTITE® 641

Low 1,700 psi (11.7)

Up to 0.006" (0.15 mm)

150°C

20 min./24 hr.

50ml bottle - 848752 250ml bottle - 848750 LOCTITE® 609

Medium 2,300 psi (15.8)

Up to 0.005" (0.1 mm)

150°C 10 min./24 hr.

5oml bottle - 848744 250ml bottle - 848745 LOCTITE 638 (Up)

4,200 psi (29)

Up to 0.01" (0.25 mm)

High

180°C 15 min./24 hr.

250ml bottle - 1865048

50ml bottle - 1865160

soml bottle - 1865163 250ml bottle - 1865164



A controlled strength retaining compound that is ideal for cylindrical parts that require disassembly.



Recommended for parts that will need subsequent dismantling, i.e. retention of bearings onto shafts and into housings.



Maximum strength. For use where high dynamic force or cyclic loading is expected. Offers high temperature performance and oil tolerance.



Press Fit/High Strength/Rapid Cure. Offers high temperature performance and oil tolerance.









Package Size & IDH

INSTANT BONDING

- » ASSEMBLE PARTS QUICKLY AND EASILY
- » PEPAIR BROKEN PARTS
- » BOND DISSIMILAR PARTS





▶ WHAT IS THE BONDING APPLICATION REQUIREMENT?

	Porous / absorbent mater	
► HENKEL SOLUTIONS	LOCTITE® 401	
Fixture Time	15 sec.	
Gap Fill (mm)	0.12	
Temperature Resistance	120°C	
Shear Strength, psi (N/mm²)	3200 (22)	
Viscosity (cP)	110	

ADDITIONAL PRODUCTS		
Name	Features	Gap Fill (mm)
LOCTITE® 480	Suitable for close-fitting parts	0.15
LOCTITE* 430	Metal bonder for close fitting parts	0.12
LOCTITE [®] 420	Wicking type plastic bonder	0.05



20g bottle - 1669715

ılitre bottle - 833784

Surface insensitive instant adhesive for difficult-to-bond, porous surfaces such as wood, paper, leather or fabric.

BONDING RUBBER, PLASTIC, METAL - INSTANT BONDING

	Plastics / Rubber (EPDM)	Metal parts	General Purpose
		LOCKITEL	LOCKIES
LOCTITE* 454	LOCTITE® 406	LOCTITE' 415	LOCTITE 495
15 sec.	15 sec.	30 sec.	20 sec.
0.25	0.10	0.20	0.10
120°C	120°C	80°C	120°C
3200 (22)	3200 (22)	3600 (25)	2750 (19)
Gel	20	1500	45

20g bottle - 1752383 300g cartridge - 88525

20g bottle - 1669713

20g bottle - 848003 500gm bottle - 849230

20g bottle - 1669711



Surface insensitive gel. Bonds porous & absorbent surfaces. Non-dripping, particularly suited for overhead applications.



Particularly suited for bonding rubbers & plastics. A must for every tool box for general maintenance & repair. Makes O-rings instantly. Wicking viscosity for tight bond lines.



High viscocity adhesive offering maximum adhesion to metals. Ideal for bonding small metal parts for general maintenance.



A general purpose adhesive designed to bond rubber, metal & plastic parts.







STRUCTURAL BONDING





▶ WHAT IS THE BONDING APPLICATION REQUIREMENT?

► HENKEL SOLUTIONS	LOCTITE' AA 324
Color	Amber
Viscosity (cP)	17000 CP
Mix Ratio	NA
Fixture Time	5 min.
Cure Time	24 hours
Temperature Resistance	175°C
Shear Strength	2700 psi

50ml bottle - 847577 Package Size & IDH 250ml bottle - 847578

A	DDITIONAL PRODUCTS
Name	Features
LOCTITE' AA 326	Fast fixture (within 1 minute).
LOCTITE* AA 330	General purpose.
LOCTITE® AA 331	Ultra fast fixture. Acid free.



Surface insensitive instant adhesive for difficult-tobond, porous surfaces such as wood, paper, leather or fabric. Suitable for small gap. Specially formulated for toughness and impact strength. Use with LOCTITE® 7075 activator.

METAL

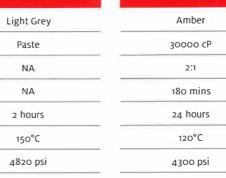
SUBSTRATE

MULTIPLE

LOCTITE" EA E-30CL

1	LOCTITE ⁸ AA H 3151
	Light Yellow
	70000 cP
	1:1
	go mins
	24 hours

0000 cP	
1:1	
90 mins	
4 hours	
120°C	
3780 psi	



Amber	Clear
30000 CP	10000 CP
2:1	2:1
180 mins	> 180 mins
24 hours	24 hours
120°C	120°C
4300 psi	3100 psi



300ml cartridge - 1617847

LOCTITE EA E-214HP

Paste NA

2 hours 150°C

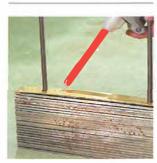
400ml - 1752564

LOCTITE EA E-120HP

50ml syringe - 1752546



Suitable for bonding a wide variety of plastic and metal substrates without the use of additional primer. Offers extended work life.



A one component acid free, heat cure epoxy with high strength, temperature resistance, non sag and non corrosive.



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



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



FLEXIBLE BONDING AND SEALING

- THERMO EXPANSION/CONTRACTION, ETC
- TEMPERATURE SWINGS AND UV LIGHT



▶ IS THE REQUIREMENT TO SEAL THE SUBSTRATE OR BOND THEM TOGETHER?

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General Purpose

HENKEL SOLUTIONS	TEROSON [®] MS 930
Colour	Black, White, Grey
Hardness [Shore A]	30
Skin formation time [min]	18
Tensile strength [MPa]	1.0
Elongation at break [%]	250
Service temperature range [°C]	-50°C to +80°C

Package Size & IDH

310ml cartridge white-1656499 310ml cartridge grey-1656500 310ml cartridge black-1845185



- Soft-elastic
- Multi purpose
- UV & weathering resistance
- Good adhesion to wide variety of substrates
- 100% sealing

Medium Strength

TEROSON® MS 935

Black, White, Grey

50	
8	
2.8	
230	

-40°C to 100°C

290ml cartridge black-1940293



- Good paintability
- Environmental resistance
- Easy smoothing
- Elastic sealant adhesive

BONDING

General Purpose

TEROSON® MS 939

Off-White, Grey	
55	
5	
3.0	
 250	
-40°C to 100°C	

570ml sausage white-212653 290ml cartridge grey-1846007



570ml sausage black-1752515

- Very versatile across substrates
- UL Listing for electrical equipment
- Excellent bonding and sealing even without primer
- Good environment & UV resistance
- Paintable

2K Rapid Cure

TEROSON® MS 9399

-40°C to 100°C

lack, White, f-White, Grey	Black, White, Grey
55	55
5	35
3.0	3.0
250	150

400ml white - 2048329



- Fast curing
- High initial strength
- Good sag resistance
- Independent from air / humidity
- Good UV and environmental resistance

Windshield Bonding

TEROSON® PU 8590
Black
60
25
8.0
400
-40°C to 90°C

310ml cartridge(N/M)-1574002 310ml kit - 1574212



- · Short setting time leads to faster turn around
- Excellent UV resistance (retains elasticity even after aging)
- Higher reliability due to 100% bonding of substrates
- Excellent strength of bonding on multiple substrates
- Solvent free composition
- Used with Teroson PU 8517H Primer







ANTI-SEIZE LUBRICANTS





▶ WHAT TYPE OF ANTI-SEIZE DO YOU REQUIRE?

Up to 871°C

► HENKEL SOLUTIONS

LOCTITE® LB 8150 Silver **Grade Anti-Seize**

Color	Silver
Solid Lubricating Agent	Graphite/Aluminum
Torque Coefficient*	0.18
Temperature Range	-29°C to 870°C
Metal-Free	No

500g jar - 833783 Package Size & IDH

^{*} K value on steel nuts and bolts

ADDITIONAL PRODUCTS			
Name	Max Temp	Features	
LOCTITE® LB 8700 Extreme Pressure Resistant Lubricant	399*C	MOS, based thread lubricant	
LOCTITE* LB 8012 Low Friction Lubricant	399°C	Recommended for maximum lubricity at low speeds, high loads, Metal free formulation	



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 871°C. ABS Approved. Tested to Mil-PRF-907E. CFIA Approved. **

GENERAL PURPOSE

Up to 1315°C

LOCTITE® LB 771

Nickel Anti-Seize

Silver

0.13

-29°C to 1315°C

No

1 lb - 1751839

LOCTITE® LB 8008 C5-A Copper Anti-Seize

Up to 982°C

Copper

Copper/Graphite Nickel/Graphit 0.16

-29°C to 982°C

No

1 kg - 2096331

Exclusive formula suspends copper and graphite in a high quality grease. Protects metal parts from rust, corrosion, galling, and seizing at temperatures to 982°C. Tested to Mil-PRF-907E. CFIA Approved. **



Copper-free. Recommended for stainless steel and other metal fittings. For preventing corrosion, seizing, and galling in harsh, chemical environments, and temperatures to 1315°C. ABS Approved. **

METAL-FREE **APPLICATION**

FOOD CONTACT

INCIDENTAL

WATER RESISTANT

LOCTITE® LB 8009 leavy Duty Anti-Seize

Black Graphite/Calcium Fluoride 0.16

-29°C to 1315°C Yes

510gm - 1751851

Metal free.

Excellent lubricity.

aluminum and soft

metals up to 1315°C.

Provides outstanding

lubrication to all metal

including stainless steel,

LOCTITE® LB 8014 Food Grade Anti-Seize

White White Lubricating Solids

> 0.13 -29°C to 399°C

Yes

2 lb · 1751942

LOCTITE® LB 8023 Marine Grade Anti-Seize

Black

Calcium Sulfonate

0.18

-29°C to 1315°C Yes

16 oz - 1752448



Prevents seizure, galling, and friction in stainless steel and other metal parts up to 399°C. NSF H1 rated for incidental food contact. **



Formulated to protect assemblies exposed directly or indirectly to fresh and salt water, this anti-seize works especially well in high humidity conditions. It has excellent lubricity, superior water washout spray resistance, and prevents galvanic corrosion. ABS Approved.**

** All approvals are region specific. Please contact your Henkel Sales Representative for further information.





CLEANING

» CLEAN AND DEGREASE WORK SURFACES, PARTS AND HANDS

▶ WHAT TYPE OF CLEANER DO YOU REQUIRE?

GENERAL PURPOSE

► HENKEL SOLUTIONS	LOCTITE® SF 7061
KB Values	N.A.

Package Size & IDH

100ml can - 849292





Solvent based (acetone) general parts cleaner, evaporates very fast, removing dirt, resins, lacquer, oils and greases from metals. Recommended for pre assembly cleaning.





GASKET REMOVING

LOCTITE® SF 790 Chisel Gasket Remover

Greater than 200

510g aerosol can - 1751840 510g bottle - 1409698

Removes gaskets from any type of assembly in 10 to 15 minutes. Prepares metal parts for new gaskets, eliminating scrapin and sadin. Works on wood; noncorrosive on aluminum. Not for use with plastics, Linoleum, or synthetic fibers.

BIODEGRADABLE

LOCTITE® SF 7840 Natural Blue Biodegradable Cleaner & Degreaser

N.A.

5litre bottle - 789065 20litre bucket - 789705



Biodegradable, all-purpose, A non-aqueous, hydrocarbonindustrial strength, based solvent designed for concentrated cleaner and cleaning and degreasing degreaser. Can be economically surfaces to be bonded with diluted with water. Formulated adhesives, as well as for general for wipe down, pressure purpose industrial cleaning. spraying, ad immersion cleaing Safe on aluminum, rubber, and processes at room temperature most plastics, and will not cause flash rusting on water-sensitive or heated. Non-flammable and non-toxic. Contains no ODCs. parts. Dries residue-free.

DEGREASER

LOCTITE® SF 7070 **ODC-Free Cleaner & Degreaser**

LOCTITE® SF 7611 **Pro Strength Parts Cleaner**

132

34

150g bottle - 1423361 425g bottle - 1423327 10litre bucket - 1522516

1902 aerosol can - 1752427



Contains no ozone-depleting compounds (ODCs).



dissolves, and removes oil and grease from parts. Dries quickly with no residue. Contains no





MOULD RELEASE AGENTS

- » NO CONTAMINATING TRANSFER
- » MULTIPLE RELEASES



► FREKOTE MOULD RELEASE AGENTS

SOLVENT BASED

WATER BASED

FRP release

Rubber release Rubber release

▶ HENKEL SOLUTIONS

LOCTITE® FREKOTE® 770-NC

Quick curing Description

Cast

Compression Molding Lay-up

RTM Vacuum Bagging

Filament Winding

15°C - 60°C

Cure at room temperature for Cure Time and Temperature 5-10 minutes

Package Size & IDH

Moulding Process

Application Temperature

1 gal drum - 416032

LOCTITE® FREKOTE® R-120

Ready to use

Compression Transfer

60°C - 204°C

25 minutes at 60°C or 10 minutes at 93°C or 4 minutes at 150°C

20 litre - 1661893

LOCTITE® FREKOTE® R-220

Highly filled elastomers

Difficult molding application, especially for high aspect ratio parts

60°C - 205°C

25 minutes at 60°C or 10 minutes at 93°C or 4 minutes at 150°C

5 gal - 2007063



Versatile release agent which provides high slip where mould geometry problems are encountered. It cures rapidly at RT to give a high gloss finish to the moulded parts. It is a low odour, clear fast evaporating solution that can be used with FRP composites, epoxies, polyester resins, vinyl resins and thermoplastics.



A water-based, semi-permanent release agent for rubber molding. Capable of releasing all natural and synthetic polymers including some thermoplastic urethanes.



Offers excellent release and slip properties and is recommended for the most demanding rubber molding applications, such as EPDM rubber, and will also release thermoplastic urethanes and solid polyurethane cast











LIGHT CURE ADHESIVES



LIGHT CURE ADHESIVES

HENKEL SOLUTIONS

Appearance Clarity / Color

Viscosity cP (Brookfield, 25°C)

Elongation at break, %

Cure Type

Key Substrates

Shore Hardness

Temperature Range

Package Size & IDH

GLASS BONDING

LOCTITE® AA 349

Clear

Ultraviolet

Glass, metal

9500

300

D 70

-54°C to 150°C

50ml - 1751830

1 litre - 1751833

GENERAL PURPOSE

LOCTITE® AA 352

Light Amber

Ultraviolet, heat, activator

Glass, metal

19,500

290 D 60

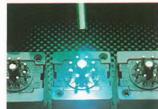
-54°C to 150°C

50ml - 847579

250ml - 848070



A medium viscosity adhesive that bonds & seals glass to glass, or glass to metal components. Electrical properties of the material makes it suitable for potting and tacking.



A high viscosity adhesive that creates a tough, flexible bond resistant to vibration and shock. Effective on a wide range of materials. Cures in minutes using an activator, UV light or both.



LOCTITE® AA 3081

Clear

Ultraviolet

Glass, metal,

some thermoplastics

100

- 7.6
- D 74 -54°C to 150°C
- 1 litre 1752409



A low viscosity, UV cure adhesive that has excellent adhesion to glass, metal & certain thermoplastics. ISO 10993 compliant.



LOCTITE® EQUIPMENT **SOLUTIONS**





LOCTITE® PRE-APPLIED **SOLUTIONS**



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.

From water-thin liquids to high-viscosity pastes, LOCTITE* brand equipment is capable of dispensing and curing a wide variety of adhesives, sealants and other industrial fluids.

In addition to our standard line of equipment, Henkel offers a number of resources to support your dispensing needs:

- Custom Equipment Systems We can modify any LOCTITE® brand standard system or customize a
- system to meet your specific assembly needs. • Equipment Website - Locate details on LOCTITE® brand standard and custom equipment, parts and
- accessories, and equipment services. To learn more about our equipment, visit www.equipment.loctite.com or contact your Henkel Sales Representative.
- Adhesive and Sealant Specialists Henkel Adhesive and Sealant Specialists are available across the continent to personally assist you with new assembly challenges per an existing application for improved performance and cost savings using LOCTITE® brand product

or to nelp you re-engineer an existing application for improved performance and cost savings using LOCTILE® brand products.			
LOCTITE® EQUIPMENT RANGE			
DISPENSING SYSTEM	CONSUMMABLES	MOTION CONTROL	LIGHT CURE
1. Adhesive Bottles 2. Pneumatic Syringe 3. Tube bonding 4. Controllers and reservoirs 5. Hand held, soft pack and cartridge 6. Volumetric dispensing - single component, two component 7. Handheld applicators, valves 8. Hotmelt dispenser 9. Anaerobic dispenser 10. Dispense monitoring system	1. High Precision Stainless Steel Dispense Tips 2. Tapered Dispense Tips 3. General-Purpose Dispense Tips 4. Flexible Dispense Tips 5. Cartridge Accessories 6. LOCTITE® Brand Static Mix Nozzles & Accessories 7. LOCTITE® Brand Syringe Accessories 8. LOCTITE® Brand Spare Parts	Benchtop Robot Gantry Robot SCARA Robot Rotary Dispense System Mounting hardware and guarding enclosures	1. Led light curing devices 2. Led flood systems 3. Wand systems 4. Cure chambers & flood systems 5. Cure conveyors 6. High intensity light sources 7. Assurecure® system 8. Light meters























Products with a pedigree

For over 50 years the LOCTITE® brand has been at the leading edge of securing threaded fasteners with adhesives. This has led LOCTITE® becoming the number one brand for sealing and locking threaded components worldwide and is widely accepted as being best method to ensure component security & reliability.

Now, threaded parts can be pre-coated with a solvent free locking medium that is dry-to-touch and will only cure on assembly ensuring clean, efficient & user friendly assembly. LOCTITE® offers a complete range of Dri-Seal®, Dri-Loc® and Anti-Seize Pre-Applied coatings, for locking and/or sealing threaded parts. This means that there is no longer a need to apply adhesives, sealants, or any other locking or sealing device during assembly.

- LOCTITE® Pre-Applied products have many benefits such as: Vibration resistant - resulting in equipment reliability
- Dry to touch coating ease of handling
- Fase of automation higher speed of assembly
- Guaranteed quality trusted by leading automotive OEMs worldwide
- Any fastener becomes a self locking / self sealing fastener
- Reduced component costs and assembly time

In addition, every product in LOCTITE's Pre-Applied range of coatings is environmentally friendly.

For the Dri-Loc® and Dri-Seal® products manufacturing, application and the drying process are all water based and are free of organic solvents. They are all brightly coloured which enables easy inspection and identification of different

LOCTITE® Pre-Applied Centres have fully automatic coating machines, which allow almost any size or shape, of a bolt, screw, stud, plug, nut etc. to be coated. Any pre-treated component can be reused after disassembly by applying the appropriate liquid LOCTITE® threadlocking or threadsealing product.

When to use LOCTITE® Dri-Loc®, Dri-Seal® and Anti-Seize

Dri-Loc®

is a locking adhesive which provides excellent resistance to vibration loosening on any threaded fastener including nuts. The adhesive is activated during assembly and cures to form a tough polymer that eliminates movement between the threads and provides a total seal.

	Dri-Loc®
Name	Features
204	Highest Strength

Dri-Seal® / Vibra Seal®

is used to permanently seal tapered and parallel threads. It gives excellent torque tension (lubricating) characteristics to aid assembly. It gives an instant seal and prevents leakage whilst allowing disassembly.

	Dri-Seal®	
ures	Name	Features
Strength	5061	General Purpose
	516	Big Thread

Anti-Seize

is a pre-applied high temperature, antigalling, thread lubricant that is dry to touch. For use on applications such as exhaust manifold bolts, and catalytic converter. Once applied, the part can be reused up to five times.

	Anti-Seize		
Name	Features		
17015	Dry-to-touch Anti-Seize Anti-gally High Temperature resistance upto 650°C		







LOCTITE[®] 4090 – Hybrid Adhesive



Speed + Strength

LOCTITE® 4090 adhesive is an innovative hybrid that combines the bond strength and speed you need to solve your design and assembly challenges. With the speed of an instant adhesive and the strength of a structural adhesive, LOCTITE® 4090 delivers both performance and versatility.

This powerful combination provides high impact resistance, high strength bonding on a variety of substrates, and high temperature resistance - making LOCTITE® 4090 the essential adhesive solution. LOCTITE® 4090 opens the door to new applications and new solutions.

These are just some of the benefits of LOCTITE® 4090:

- Strength of a structural adhesive
- Speed of an instant adhesive
- High impact and vibration resistance
- Temperature resistance up to 150°C
- Gap filling up to 5 mm
- Suitable for a variety of substrates, including metals, most plastics and rubbers



TECHNICAL DATA	
COLOR	Slightly cloudy to light yellow
APPEARANCE	High viscosity gel
MIX RATIO (VOLUME)	1:1
WORKING TIME	3 to 5 min.

PROPERTIES OF CURED MATERIAL		
LAP SHEAR STRENGTH, ISO 4587, AFTER 24 HOURS, 22°C	Steel (grit blasted) Aluminum (etched) Polycarbonate	17 N/mm² 13 N/mm² 6.9 N/mm²
HIGH GAP FILL	Up to 5 mm depending o	on bond geometry
TEMPERATURE RESISTANCE	-40°C to 150°C	
CHEMICAL RESISTANCE	Very good chemical/so	lvent resistance





High Performance Potting & Bonding Epoxy Compound

FEATURES



Excellent thermal resistance

Reliable performance in extreme conditions even upto 180°C



Excellent electrical insulation

Great choice for electrical insulation application Dialectical strength of 19.2 KV/mm



Fast fixture strength 3X-8X increase in production 4 hrs

fixture time

PROPERTIES	LOCTITE® EA E-30 HV	CONVENTIONAL SOLUTION
Temperature Resistance (intermittent)	180°C	120°C
Dielectrical Strength KV/mm	19.2	17.3
Fixture Time	4 hours	6 hours

SUBSTRATE VERSALITY











GLASS

PLASTIC

OPTICAL FIBER

METAL

CERAMIC



