

MAINTENANCE EXPERT GUIDE



Solutions for Maintenance Experts

At Henkel, we understand the challenges you face in maintaining and repairing industrial equipment. To make sure your operations run smoothly, you need the right people – and the right tools.

Loctite[®] offers maintenance experts solutions for all bonding, sealing, cleaning and lubricating tasks. Whatever your task is – you make it work with Loctite[®].

Making the right choice

This Maintenance Expert Guide has been developed to make your product selection quick, easy and right at the first time. It covers the most relevant products you need in your everyday maintenance work.

- Search by product category or by task
- Get useful application hints in the "How to apply" sections

To discover our full product portfolio visit www.loctite.com or contact your Henkel Engineer.

Table of Contents

8 LOCTITE [®] Maintenance Heroes
10 Health & Safety Products
12 Threadlocking Adhesives
16 Thread Sealants
20 Gasketing Products
24 Retaining Compounds
28 Instant Adhesives
32 Universal Bonders
34 Structural Bonding
42 Flexible Sealing and Bonding
46 Metal-filled Compounds
50 Protective Coatings and Compounds
54 Cleaners
60 Lubricants
64 Surface Treatment and Rust Prevention Products
68 Emergency Repair Products
72 Equipment
76 Maintenance Expert Training
78 Specific Maintenance Solutions

What's Your Task?





What's Your Task?





LOCTITE[®] Maintenance Heroes

Loose threads, leaking pipes – many repair tasks occur unexpectedly. Be prepared – with our LOCTITE[®] Maintenance Heroes; products every maintenance expert should have at hand.



LOCTITE[®] 243

- · Medium strength threadlocker
- Oil tolerant



LOCTITE[®] 55

- Thread sealing cord
- · Allows reliable re-adjustments



LOCTITE[®] SI 5980

- · Ready-to-use flange sealant
- Oil resistant



LOCTITE[®] 3090

- Gap filling instant adhesive
- Bonds variety of substrates

LOCTITE[®] 401

- General purpose instant adhesive
- Excellent adhesion on multiple substrates

LOCTITE® 3463

- Steel-filled kneedable stick
- Ideal for emergency sealing of tanks and pipes

LOCTITE[®] 7063

- · Parts cleaner
- Degrease and clean surfaces prior to bonding

LOCTITE[®] 8201

• Multi-purpose oil

LOCTITE[®] 8150

- Aluminium anti-seize
- Protect against seizing and corrosion











Health & Safety Products



Henkel's Health & Safety products improve your safety at work while ensuring exceptional performance.

Anaerobic products

- White SDS*
- · No hazard symbols, risk or safety phrases
- Proven performance



Instant adhesives

- No Health & Safety related risk phrases in the SDS
- · Classified as non-irritant
- · Low odour, low bloom
- Improved product performance



*No entries in section 2, 3, 15 & 16 of Material Safety Data Sheet acc. to (EC) No. 1907/2006 - ISO 11014-1.



Gasketing products

- No hazard symbols
- Low odour

Water and glycol resistance

Oil resistance

High temperature resistance



Heavy-duty maintenance cleaners

- No or limited hazardous substances
- Low toxicity to water organisms and biodegradable surfactants
- Low volatile organic substances (VOC)

Fountain cleaning	BONDERITE C-MC 1030
Floor cleaning	BONDERITE C-MC NEXO SOL
High pressure cleaning	BONDERITE C-MC N DB
pray cleaning	BONDERITE C-MC 352
Hand cleaning	LOCTITE 7850

Threadlocking Adhesives



- · Resist vibration loosening
- Threads are completely sealed eliminating fretting corrosion
- · Clean and easy to apply
- Replace mechanical threadlocking devices lower costs and inventory

Medium		High
LOCTITE" 243	LOCTITE" 248 STICK	LOCTITE [®] 270
The Allrounder	Non Dripping	Permanent Locking
A A A A A A A A A A A A A A A A A A A	C C C C C C C C C C C C C C C C C C C	
M36	M50	M20
-55 to +180	-55 to +150	-55 to +180
P1 NSF	-	P1 NSF
 General purpose Good performance also on passive metals Oil tolerant 	 Easy-to-use stick For overhead applications 	 For permanent locking if regular removal for maintenance is not required



How to apply LOCTITE[®] 222, 243, 248, 270

1. Preparation

Cleaning

It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive.





Activation

If cure speed is too slow due to passive metals or low temperature (below 5 °C), use activator LOCTITE® 7240 or LOCTITE® 7649 (see cure speed vs. activator graph in the TDS).

2. Application

A LOCTITE[®] 222, 243, 270

Apply liquid threadlocker on the targeted area.



Through hole:

Assemble bolt first and then apply threadlocker.



Blind hole:

Apply into lower third of blind hole.



Post assembly:

Assemble nut and bolt and dispense product at the edge of nut and bolt.

Equipment

Recommended dispensing equipment: IDH 608966 or IDH 88631 (see chapter Equipment).

B LOCTITE[®] 248

Apply threadlocker on the targeted area.



- Twist stick to the amount required
- Apply sufficient product around the thread of the bolt

3. Assembly

- Assemble and tighten
- If several bolts are pre-tightened first, fully tight them within the fixture time of the product or use a slow curing product

4. Disassembly



- Disassemble with standard hand tools
- If not possible, apply localised heat to approximately 250 °C, dissasemble while hot
- For corroded or seized parts use LOCTITE® 8040 Freeze & Release

For detailed information please refer to the Technical Datasheet or contact your Henkel Technical Service Team.

Thread Sealants



- Prevent leakage of gases and liquids
- Resist vibration and shock loads
- · Clean and easy to apply
- Replace all tapes and hemp & paste



Thread Sealants

How to apply LOCTITE® 577, 542

1. Preparation

Cleaning

It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive.



Activation

If cure speed is too slow due to passive metals or low temperature (below 5 °C), use activator Loctite® 7240 or Loctite® 7649 (see cure speed vs. activator graph in TDS).

2. Application

- Apply a 360° bead to the leading male thread, leaving the first thread free
- For bigger threads, apply both on male and female thread



Equipment

Recommended dispensing equipment: IDH 608966 or IDH 88631 (see chapter Equipment).

3. Assembly

Assemble fittings using wrench tightening in accordance to manufacturers' recommendations.

4. Disassembly

- Disassemble with standard hand tools. If not possible, apply localised heat to approximately 250 °C, disassemble while hot
- For corroded or seized parts use LOCTITE® 8040 Freeze & Release

1. Preparation

Cleaning

Clean threads if necessary and roughen smooth threads.



2. Application

- Wind the cord onto the pipe thread in the same direction as the thread, starting from the end of the pipe. For recommended number of wraps see label. For optimized performance apply criss-cross
- Cut off the cord with the integrated cutting tool at the top of the tube



3. Assembly

- Assemble using accepted trade practices
- Adjustment of 45° is possible after tightening



For detailed information please refer to the Technical Datasheet or contact your Henkel Technical Service Team.

Gasketing Products

Is your flange rigid or flexible?

SOLUTION	Rigid LOCTITE" 518
	The Allrounder
Substrate to be sealed	Metal
Max. gap (mm)	0,25
Service temperature range (°C)	-55 to +150
Approvals	-
Comments	 General purpose Excellent chemical resistance Oil tolerant

- Prevent leakage and failure by filling all voids
- No need for re-torquing
- One product fits all shapes low costs and inventory



How to apply LOCTITE[®] 518, 510, SI 5980, SI 5990

1. Preparation

Cleaning

- Apply LOCTITE[®] 7200 on old gasketing adhesive and use a wood or plastic scraper to remove residues. Remove burrs
- It is recommended to use LOCTITE[®] 7063 to degrease and clean surfaces prior to applying the adhesive



Activation

- If cure speed of LOCTITE[®] 518 and LOCTITE[®] 510 is too slow due to passive metals and low temperature (below 5 °C), use activator LOCTITE[®] 7240 or LOCTITE[®] 7649 (see cure speed vs. activator graph in the TDS)
- LOCTITE® SI 5980 and LOCTITE® SI 5990 do not need an activator

2. Application

 Apply as a continuous closed bead onto one flange surface. Place the bead close to the inner rim of the flange and encircle all holes. Small scratches can be filled by the adhesive

• LOCTITE[®] 510 and LOCTITE[®] 518 can also be applied by roller onto





Equipment

large flanges

Recommended dispensing equipment: IDH 363544 or IDH 142240 (see chapter Equipment).

3. Assembly

Assemble flanges and tighten bolts as soon as possible.

4. Disassembly

- Disassemble bolts with standard hand tools
- Use lifting-screws, casted-on bosses or recesses to lift flanges apart
- For corroded or seized parts, use LOCTITE® 8040 Freeze & Release

For detailed information please refer to the Technical Datasheet or contact your Henkel Technical Service Team.

Retaining Compounds

How large is the gap?

	< 0,1 mm
	LOCTITE' 603
	Ideal for Bearings
	A AI
Handling strength after (min.) ¹	8
Service temperature range (°C)	-55 to +150
Approvals	P1 NSF, WRAS
Comments	For use on cylindrical fitting parts with tight gapsHigh oil tolerance

¹ At room temperature on steel joints.

- · Fill all voids to prevent loosening, corrosion and fretting
- Suitable for high loads even with existing design
- 100 % contact even stress distribution across the joint





How to apply LOCTITE[®] 603, 638, 660

1. Preparation

Cleaning

- Use LOCTITE® 7200 for easier removal of residues in case of old retaining adhesive
- It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive
- For larger gaps than 0,5 mm or worn out shafts, bearing seats or keyways, use LOCTITE® metal-filled compounds (see chapter Metal-filled Compounds)

Activation

If cure speed is too slow due to passive metals or low temperature (below 5 °C), use activator Loctite® 7240 or Loctite® 7649 (see cure speed vs. activator graph in the TDS).

2. Application

A For slip fitted assemblies: LOCTITE[®] 603, 638, 660

Apply adhesive around the leading edge of the male component and the inside of the female component and use rotating motion during assembly to ensure good coverage.

B For press fitted assemblies: **I OCTITE[®] 603**

Apply adhesive thoroughly to both bond surfaces and assemble at high press on rates.









C For shrink fitted assemblies:

Apply the adhesive onto the pin, heat the collar to create sufficient clearance for free assembly.

For product selection contact your Henkel Technical Service Team.



Equipment

Recommended dispensing equipment: IDH 608966 or IDH 88631 (see chapter Equipment).

3. Disassembly

- Apply localised heat to approximately 250 °C, dissasemble while hot
- For corroded or seized parts, use LOCTITE[®] 8040 Freeze & Release



For detailed information please refer to the Technical Datasheet or contact your Henkel Technical Service Team.

Instant Adhesives

Do you need a non-drip / non-run product? No Т Gaps < 0,15 mm SOLUTION LOCTITE[®] 401 The Allrounder Fixture time (sec.) 3 - 10Service termperature range (°C) -40 to +120 **Approvals** P1 NSF Comments • General purpose Low viscosity

- Excellent adhesion on multiple substrates especially plastics and rubbers
- · Very fast positioning and fixturing of parts
- · Small parts bonding



Instant Adhesives

How to apply LOCTITE® 401, 454, 3090

1. Preparation

Cleaning

It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive.

Priming

To improve adhesion on difficult to bond plastic surfaces, apply LOCTITE[®] 7239 or LOCTITE[®] 770 to the bond area by brushing or dipping. Avoid applying excess primer. Allow the primer to dry.

Activation

If cure speed is too slow, use appropriate activator LOCTITE® 7458 (see cure speed vs. activator graph in the TDS). Apply activator to one bond surface by spray, brush or dipping (not to primed surfaces). Allow the activator to dry.

Mixing

Mixing with static mixer (LOCTITE® 3090):

Before mounting the static mixer onto the cartridge, push out small amount of product to equalize pistons. Mount static mixer and push some mixed product out until a uniform color is reached, then the static mixer provides

a well mixed product.









2. Application

Apply adhesive by drop or bead to one of the bond surfaces (not to activated surfaces).



Equipment

Recommended dispensing equipment: (see chapter Equipment)

- · For precise dispensing of small amounts of adhesive use dispensing needles
- Spare static mixers for Loctite[®] 3090: IDH 1453183

3. Assembly

Assemble the parts immediately. The parts should be accurately located, as the short fixture time leaves little opportunity for adjustment. Bond should be held fixed or clamped until the adhesive has fixtured.

Hint:

If necessary excess product can be cured by activator LOCTITE® 7455. Spray or drop activator on excess product.



For detailed information please refer to the Technical Datasheet or contact your Henkel Technical Service Team.

Do you need an ultra fast cure?



- Bonds a wide variety of substrates
- Very fast positioning and fixturing of parts
- Tough and impact resistant bonds

		<u> </u>
	Yes	No
SOLUTION	LOCTITE' 4070	LOCTITE' 4090
	Ultra Fast and Versatile	Impact and temperature resistant
Fixture time (sec.)	<1	3-5
Service termperature range (°C)	+120°C	+150°C
Approvals	Slightly cloudy to light yellow gel	Slightly cloudy to light yellow gel
Comments	 Ultra-fast fixture-reduces maintenance down time High gap filling capability- excellent for universal repairs Suitable for a variety of substrates, including metals, most plastics and rubbers—opening up your design possibilities 	 Good moisture, temperature (up to 150°C) and chemical resistance Impact and vibration resistant Suitable for a variety of substrates, including metals, most plastics and rubbers—opening up your design possibilities
AV 4090		

Structural Bonding – Acrylics and Polyurethanes

What is your focus?

	General bonding
SOLUTION	TEROSON PU 6700
	The Allrounder
Technology	2K-PU
Fixture time (min.)	30
Shear strength (GBMS N/mm²)	>12
Service temperature range (°C)	-40 to +80
Comments	 General purpose Suitable for painted surfaces Gap filling Slightly flexible

- Rigid to slightly flexible structural bonding
- · High strength
- Good chemical resistance
- · Excellent adhesion on multiple substrates





How to apply TEROSON PU 6700, V5004

1. Preparation

Cleaning

It is recommended to use $\text{LOCTITE}^{\textcircled{0}}$ 7063 to degrease and clean surfaces prior to applying the adhesive.



Priming

To improve adhesion of TEROSON PU 6700 on difficult to bond plastics apply TEROSON RB 150 to the bond area. Avoid applying excess primer. Allow the primer to dry.

Mixing

With static mixer:

Before mounting the static mixer onto the cartridge, push out small amount of product to equalize pistons. Mount static mixer and push some mixed product out until a uniform color is reached, then the static mixer provides a well mixed product.
2. Application

Apply product directly after mixing to the bonding area.

Hint: After use, leave the static mixer in place and use it as a cap.



Equipment

Recommended dispensing equipment: (see chapter Equipment)

	Dispensing equipment	Mixers / nozzles
TEROSON PU 6700	• IDH 267452	• IDH 1487440
LOCTITE [®] V5004	• IDH 267452	• IDH 1467955

3. Assembly

- · Parts should be assembled immediately
- Keep the assembled parts from moving during curing
- The joint shold be allowed to be develop full strength before subjecting to any service loads

Structural Bonding – Epoxies

What is your focus?

	High technical performance
SOLUTION	LOCTITE' 9492
	High Temperature
Colour	White
Fixture time (min.)	75
Shear strength (GBMS N/mm²)	20
Service temperature range (°C)	-55 to +180
Comments	High temperature resistanceHigh chemical resistance

- Rigid structural bonding
- Very high strength
- Very good chemical resistance
- Excellent adhesion on multiple substrates



How to apply LOCTITE[®] 9492, 3430, Doubble Bubble

1. Preparation

Cleaning

It is recommended to use $\text{LOCTITE}^{\circledast}$ 7063 to degrease and clean surfaces prior to applying the adhesive.



Mixing

• Hand mixing (LOCTITE® 3430, Double Bubble): Mix A and B components according to the specified mixing ratio. Thorougly mix the two components before use



• With static mixer (LOCTITE® 9492):

Before mounting the static mixer onto the cartridge, push out small amount of product to equalise pistons. Mount static mixer and push some mixed product out until a uniform colour is reached, then the static mixer provides a well mixed product

2. Application

Apply product directly after mixing to the bonding area.

Hint:

After use, leave the static mixer in place and use it as a cap.



Equipment

- \bullet Recommended dispensing equipment for LOCTITE $^{\otimes}$ 9492 (see chapter <code>Equipment</code>): IDH 267452
- Spare static mixers: IDH 1487440

3. Assembly

- · Parts should be assembled immediately
- · Keep the assembled parts from moving during curing
- The joint should be allowed to develop full strength before subjecting to any service load

Hint:

Excess of uncured product can be wiped away with LOCTITE® 7063.

Flexible Sealing and Bonding

What is your focus?



- · Withstand impact shock, vibration and bending
- Good weathering resistance
- Wide temperature range
- Excellent adhesion on multiple substrates



How to apply TEROSON MS 930, LOCTITE[®] 5366, TEROSON MS 9399, LOCTITE[®] SI 5616, TEROSON MS 9320 SF

1. Preparation

Cleaning

It is recommended to use TEROSON 450 to degrease and clean surfaces prior to applying the adhesive. It also improves adhesion on difficult to bond materials.



Mixing

With static mixer (LOCTITE® SI 5616, TEROSON MS 9399):

Before mounting the static mixer onto the cartridge, push out small amount of product to equalize pistons. Mount static mixer and push some mixed product out until a uniform color is reached, then the static mixer provides a well mixed product.

Hint:

If you see crumbles on the beat surface the product is already partly cured and the final properties will not be reached.

2. Application

- · Apply product with suitable dispensing equipment
- In case full surface bonding is necessary please use 2 component products



 For large area bonding applications where both substrates are non water vapour transmitting, do not cover complete bonding area with product



Hints:

- Application on plastics such as PMMA or PC may cause stress cracking of the plastic; suitability for these
 materials should be tested prior to use
- After use, leave the static mixer in place and use it as a cap

Equipment

• Recommended dispensing equipment: (see chapter Equipment)

	Dispensing equipment	Mixer / nozzle
TEROSON MS 930	• IDH 142240	• IDH 581582
LOCTITE [®] 5366	• IDH 142240	• IDH 1118785
TEROSON MS 9399	• IDH 150035	• IDH 1487440
LOCTITE [®] SI 5616	• IDH 142240	• IDH 1620298
TEROSON MS 9320 SF	• IDH 142241 (for spraying) • IDH 142240	 IDH 547882 (for spraying) IDH 581582
	(for standard bead)	(for standard bead)

Metal-filled Compounds

What type of repair?



- · Repair and rebuild worn metal parts
- · No need to heat or weld
- Can be drilled, tapped or machined after cure





How to apply LOCTITE[®] 3463

1. Preparation

- Thoroughly clean and abrade surfaces. Finally clean with LOCTITE® 7063
- Cut required product quantity and then remove plastic film. Twist and knead until material is smooth and colour is consistent



2. Application

Firmly apply to bond area and form to desired shape. For smooth finish wipe over with a wet cloth.

How to apply LOCTITE[®] 3478

1. Preparation

Tool damaged area of shaft and reduce by minimum 3 mm compared to nominal diameter.

Cleaning

It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive.



Mixing

Stir each component separately. Mix A and B components according to the specified mixing ratio by volume or weight. Thorougly mix for up to two minutes until an even mix is achieved.

2. Application

- Turn shaft and apply a thin layer of LOCTITE® 3478. Then build up product layer. Apply LOCTITE® 3478 with an excess compared to nominal shaft diameter
- After full cure, tool repair area and reduce to nominal diameter

How to apply LOCTITE[®] 3471, 3475

1. Preparation

Cleaning

It is recommended to use LOCTITE® 7063 to degrease and clean surfaces prior to applying the adhesive.

Mixing

Stir each component separately. Mix A and B components according to the specified mixing ratio by volume or weight. Thorougly mix for up to two minutes until an even mix is achieved.



2. Application

- Apply the product to the working area with the spatula provided
- Keep the repaired parts from moving during cure
- Full cure is achieved at room temperature after 72 hours; heating the part to 40 °C will reduce the time span to 24 hours
- Due to heat generation during the curing process larger quantities tend to cure more rapidly



Protective Coatings and Compounds

Particle size of abrasive material? **Coarse particles** SOLUTION LOCTITE[®] 7218 **Trowelable Ceramic** Mix ratio by volume / weight (A:B) 2:1 / 100:50 **Recommended layer thickness (mm)** min. 6 -30 to +120Service temperature range (°C) **Approvals** Comments High wear resistance · For overhead applications

When choosing the right Loctite® Protective Coating or Compound key factors such as particle size, temperature resistance and chemical / corrosion resistance need to be considered. Please contact your Henkel Technical Engineer for consultancy.

- · Restore worn surfaces
- Protect parts against abrasion, erosion, chemical attack and corrosion
- Extend part life and increase part efficiency
- Save cost by avoiding part replacement and reducing spare part inventories

Fine particles		
LOCTITE' 7255	LOCTITE' 7117	
Sprayable Ceramic	Brushable Ceramic	
2:1 / 100:50	3,34:1 / 100:16	
min. 0,5	min. 0,5	
-30 to +95	-30 to +95	
WRAS	-	
• General purpose • Ultra-smooth	General purposeHigh gloss, low friction	



Protective Coatings and Compounds

How to apply LOCTITE[®] 7218, 7255, 7117

1. Preparation

Cleaning

- Thoroughly clean and abrade surfaces, if possible grit blast. Finally clean with LOCTITE[®] 7063. If necessary rebuild badly worn surfaces using trowelable metal-filled compounds
- For temporary corrosion protection for up to 48 hours apply LOCTITE[®] 7515 after surface preparation



Mixing

- If supplied in ready-to-use packages mix the entire contents of resin and hardener
- If smaller amounts are required, mix A and B components according to the specified mixing ratio by volume or weight (for mixing ratios refer to technical product data sheet or product label)
- . Thorougly mix for up to two minutes until an even mix is achieved



2. Application

- Apply fully mixed product to prepared surface by brush, trowel or spray
- Consider working and cure time (see selection table on previous pages)
- \bullet For LOCTITE $^{\otimes}$ 7255 and LOCTITE $^{\otimes}$ 7117 apply minimum 2 layers to achieve a total layer thickness



Hints:

- Pre-coating the surface by rubbing the mixed composite into the substrate helps the repair material to fill all crevices, creating a superior bond between the composite and substrate
- · Smooth out the uncured product with a warm trowel for a smooth, glossy finish
- Use products with different colours when applying more than one coat. When the first coat begins to wear the second coat will show through, providing an accurate indicator of wear

Special recommendations for sprayable products (LOCTITE[®] 7255):

- Best coating results are obtained by applying the product specific layer thickness. This is especially important for spray applications on vertical surfaces. For best results also in corners and edges, it is recommended to smooth angles to a radius of 3 mm
- When using LOCTITE[®] 7255 it is recommended to heat the product prior to application to ensure easy spraying and a smoother surface



Equipment

• Recommended dispensing equipment for LOCTITE® 7255: IDH 1175530 (see chapter Equipment)

Cleaners – Heavy-duty Maintenance Cleaners



For application of heavy-duty maintenance cleaners please refer to the Technical Data Sheet and instructions for use of your cleaning equipment.

- High quality water-based alkaline, acidic and neutral cleaners
- Clean parts and assemblies in the metalworking industry, in workshops, in the railway and boat industry
- For metal substrates, plastics, concrete, stone, ceramics, glass, painted surfaces etc.



Cleaners – Parts and Hands Cleaners

What do you want to clean?



- For various cleaning demands in the workshop
- One cleaner suitable for surface preparation prior to bonding





Cleaners – Parts and Hands Cleaners

How to apply LOCTITE[®] 7850

Application

- · Rub into dry hands until dirt or grease is dissolved
- · Wipe hands dry or rinse with water
- Repeat procedure if necessary



How to apply LOCTITE[®] 7063

Application

- Treat surfaces to be cleaned by generously spraying with LOCTITE® 7063
- Wipe surface when still wet with a clean paper towel
- Repeat if necessary until contamination is removed
- Allow solvent to evaporate until surface is completely dry

Note:

LOCTITE® 7063 can cause stress cracks on sensitive substrates.



How to apply LOCTITE[®] 7200

Application

- \bullet Before applying protect painted surfaces as $\text{LOCTITE}^{\circledast}$ 7200 may attack the paint
- Spray a heavy coat onto flange or surface. Wait 10 15 min for the gasket to soften (for silicone gaskets 30 min)
- · Remove gasket with soft scraper and wipe flange clean
- Repeat procedure if necessary



How to apply LOCTITE® 7840

Application

- Dilute LOCTITE® 7840 with water
- · Soak or spray parts and wipe or rinse clean

Hint:

Effectiveness can be enhanced by diluting with warm water



Lubricants



- Protect against corrosion, friction and wear withstanding extreme pressure
- Prevent overheating



Lubricants

How to apply LOCTITE[®] 8150, 8105, 8191, 8201

1. Preparation

Cleaning

- \bullet It is recommended to use LOCTITE $^{\otimes}$ 7063 to degrease and clean surfaces
- Surfaces should be free from scale, oxides and lubricant residues



2. Application

Shake well before use.

A LOCTITE[®] 8150

- Apply a thin layer by brushing evenly over the whole surface
- Do not dilute



B LOCTITE[®] 8105

- · Check compatibility with other grease residues
- · Apply to clean parts by brush, spatula or grease gun

Hint:

Product may be suitable for use in automatic application systems.



C LOCTITE[®] 8191

- Product should be sprayed on cleaned parts from a distance of about 20 cm to give a uniform coating
- Let parts dry for 15 to 30 minutes at ambient temperature



D LOCTITE[®] 8021

- Choose between jet and spray (based on application needs)
- Spray consistently onto parts to give a uniform film



Surface Treatment and Rust Prevention Products



Technology Benefits

· Solutions for all types of surface treatments or preparations



How to apply LOCTITE[®] 7505

1. Preparation

Wire brush to remove flaky rust and loose scale. It is recommended to use LOCTITE® 7063 to remove oil, grease and dirt. Shake well before use.

2. Application

Brush or sponge on liberally. Apply two coats (recoat time: 60 to 120 minutes). Uneven colour indicates need for additional coats. Allow minimum 24 hours to dry before painting.

Hint:

Do not apply in direct sunlight or on wet surfaces.



How to apply LOCTITE® 7800

1. Preparation

Remove rust, old coats of paint etc. from surface. Sandblast surface if possible. It is recommended to use $LOCTITE^{\textcircled{0}}$ 7063 to finally remove oil, grease and dust. Shake well before use.

2. Application

- Spray on clean parts from 20 to 30 cm to give a uniform film
- The coating becomes dry to touch after 30 to 60 minutes. Allow 24 hours to dry completely



How to apply LOCTITE' SF 7900 Ceramic Shield

1. Preparation

Clean contact tip and shroud from adhering spatter. For best results, use a new contact tip and shroud. Shake well before use.

2. Application

- Place the contact tip on the welding torch and apply from a distance of 10 – 15 cm. Fit the shroud to the welding torch and coat the exterior and interior. Let the coating dry for several seconds
- After the application reverse the can and spray for several seconds to prevent clogging of the nozzle



How to apply LOCTITE[®] 7414

1. Preparation

It is recommended to use LOCTITE® 7063 to degrease, clean and dry surfaces.

2. Application

Squeeze the tub to extrude the paste and form a narrow bead across the parts. Let product dry for 60 seconds.



Emergency Repair Products

What is your application?



	Seal pip	e leaks	Тар	ing
LOCT	ITE" 3463	LOCTITE' 5070	LOCTITE' 5075	TEROSON TAPE FIX&REPAIR
Metal Mag	jic Steel™ Stick	Pipe Repair Kit	Insulating and Sealing Wrap	High Strength Tape
	Contraction of the second			
-30) to +120	-	-54 to +260	up to +70
stick • For emer	ed kneadable rgency sealing and pipes	• Easy-to-use repair kit for temporary repair of weak areas on pipes	 Insulating and Sealing Wrap Withstand extreme conditions Stretches 3-times its size 	 Fabric reinforced tape Easy to tear by hand Repair, reinforce, fix, seal and protect

How to apply LOCTITE[®] 8040

1. Preparation

Remove loose dirt and rust. Shake well before use.

2. Application

- Spray onto parts from a distance of 10 15 cm for 5 to 10 seconds
- After 1 to 2 minutes disassemble parts. If necessary repeat procedure



How to apply LOCTITE[®] 5070

1. Preparation

- Turn off pressure in pipe system
- Thoroughly clean and abrade surfaces. Finally clean with LOCTITE® 7063

2. Application

- Mix required amount of LOCTITE[®] 3463 (details see chapter Metalfilled Compounds). Firmly press product into the crack, hole or void
- Activate tape by soaking into water at room temperature for 20 seconds. Wrap tape tightly around repair, building up at least 4 layers



How to apply LOCTITE[®] O-Ring KIT

1. Preparation

- Clean cutting blade using LOCTITE® 7063
- Cut the required approximate length of cord. Use the O-Ring cutting fixture to cut at both ends to achieve clean bonding surfaces at required length



2. Application

- Apply a small drop of LOCTITE® 406 to one end of the O-Ring
- Immediately join the two ends using the V-groove on the end of the cutting fixture. Hold in place for 30 seconds, then 0-Ring is ready for service



How to apply LOCTITE[®] 7100

1. Preparation

Shake well before use.

2. Application

- · Spray product from 15 to 20 cm onto suspect area
- A leak will be clearly visible, as the product will start foaming at the leaking area



Manual applicators

IDH number	For product	For pack size
IDH 142240	 LOCTITE[®] 5188, 510, 5366, SI 5980, SI 5990 TEROSON MS 930, MS 9320 	• 300 ml • 310 ml
IDH 218312	● LOCTITE [®] 9492	• 400 ml (1:1, 2:1)
IDH 267452	• LOCTITE® 9492, V5004 • TEROSON PU 6700	• 50 ml (1:1, 2:1, 10:1)
IDH 363544	• LOCTITE® 5188, 510, SI 5980, SI 5990	• 50 ml
IDH 1034026	● LOCTITE [®] 3038	● 50 ml (10:1)

Peristaltic dispensers

IDH number	For product	For pack size
IDH 608966	• LOCTITE [®] 222, 243, 270, 542, 603, 638	• 50 ml
IDH 88631	• LOCTITE [®] 222, 243, 270, 542, 603, 638	• 250 ml

Pneumatic applicators

IDH number	For product	For pack size
IDH 142241	 TEROSON MS 9320 SF (for spraying) 	• 310 ml
IDH 2251591	● LOCTITE [®] 7255	• 900 ml

Equipment – Accessories

Mixers

IDH number	For product	For pack size
The second secon	 ■ LOCTITE[®] 7255 	• 1125 ml (2:1)
IDH 2447734		
	• TEROSON PU 6700	• 250 ml (1:1)
IDH 780805		
and and a subsequences and a sub	 ■ LOCTITE[®] 3038 	• 50 ml (10:1)
IDH 1034575		
	• LOCTITE [®] 3090 • LOCTITE [®] 4070	• 10 ml (10:1)
IDH 1453183		
No. Room Provention of State	● LOCTITE [®] V5004	• 50 ml (1:1)
IDH 1467955		
	● LOCTITE [®] 9492	• 400 ml (2:1)
IDH 1487439		
	• LOCTITE [®] 9492 • TEROSON PU 6700, MS 9399	• 50 ml (1:1; 2:1)
IDH 1487440		
IDH 1826921	● LOCTITE [®] 4090	• 50 ml Please provide
		necessary text
<u>j</u>	● LOCTITE [®] 4090	• 400 ml for this box.
IDH 1573135		

Nozzles

IDH number	For product	For pack size
#	 TEROSON MS 9320 SF (for spraying) 	• 310 ml
IDH 547882		
	• TEROSON MS 930, MS 9320 SF	• 310 ml • Aluminium cartridge
IDH 581582		

Needles

IDH number	For product	For pack size
	• LOCTITE [®] 401	• 18 (= Green) ID 0.84 mm
IDH 88661		
	● LOCTITE [®] 401	• 20 (= Pink) ID 0.61 mm
IDH 88662		

Maintenance Expert Training



High-quality products can be only as good as the people who use them. That is why we offer hands-on training on the use of our products in maintenance and repair environments.

Our trainers are thoroughly familiar with the day-to-day problems you may encounter and will give you the tools and practical know-how for successful application of our products.

The training content is based on the product categories of this Maintenance Expert Guide and can be tailored to your needs.

Features

- Pre-plant survey
- Hands-on training
- · Conducted on site
- Training materials supplied
- Review of common failure causes and prevention
- In-plant follow up



Your benefits

The training will provide you with knowledge and tools to do the following:



Increase Reliability

and avoid downtime of your industrial equipment and machinery by regular maintenance



Improve Safety

at work by increasing reliability of your machinery and by using non-hazardous products



Save Time

by using innovative technologies that reduce downtimes and increase service intervals



Reduce Costs

by repairing worn or damaged parts instead of replacing them

Contact your Henkel Engineer for more details and to arrange training for your maintenance and repair team.

Industry expertise and equipment know-how

Years of experience in manufacturing and maintenance have enabled us to build up profound knowledge of the typical maintenance and repair tasks in all major industries and common industrial equipment.

Industry programs

Our industry programs cover the typical maintenance and repair challenges in your industry. They include numerous application examples, references and case studies. Learn how your specific repair task was solved in a comparable situation.



Power Plants

Mining

Railway



Petrochemical



Marine



Device programs

Our device programs go even deeper into the specific maintenance and repair tasks of the industrial component. They include specific application solutions for any repair tasks and suitable product suggestions. We will bring the solution so you could concentrate on your expertise.



Find more information on the programs on www.loctite.co.uk/maintenance and contact your Henkel Engineer for a workshop tailored to your needs.



Find the right product and discover additional features. Check out our mobile Maintenance Expert Guide:



m.loctite-guide-maintenance.com



Check out our YouTube Channel for the latest videos:

Henkel Ltd Wood Lane End Hemel Hempstead Hertfordshire HP2 4RQ Tel.: +44 1442 27 81 00 Fax: +44 1442 27 80 71 henkel-adhesives.co.uk

The data contained herein are intended as reference only. Please contact Henkel Technical Support Group for assistance and recommendation on specifications for these products.

All marks used are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S., Germany and elsewhere. © 2020 Henkel Corporation. All rights reserved. DSGN0005800 (09/2020)