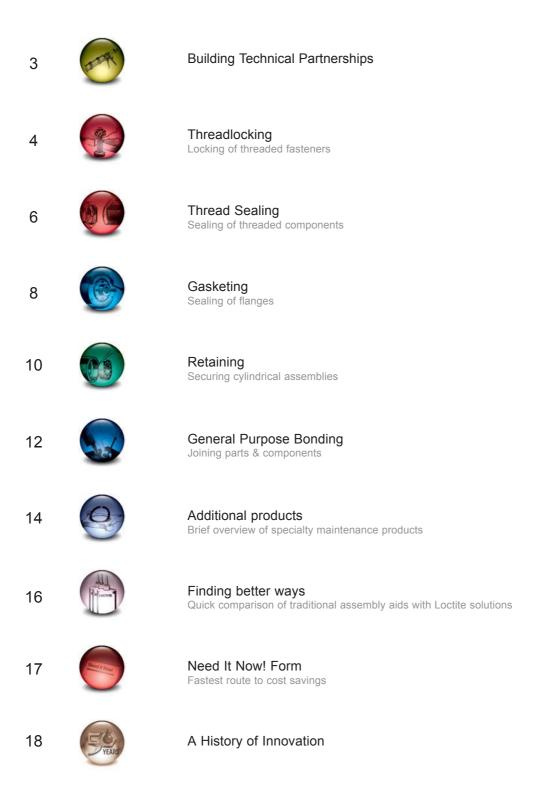
# LOCTITE.





# **Table of Contents**



# Building technical partnerships



The original Loctite® invention, developed 50 years ago, was a unique liquid resin that hardened in absence of air and in presence of metal. This pioneering technology led to redesign of whole families of machinery and changed the fastening methods in several industries by solving problems customers had long accepted as "unsolvable".

Today, Loctite brand products continue to provide innovative adhesive and specialty chemical solutions to customers around the world in industries as diverse as general industrial, automotive, medical and electronics.

At Henkel Loctite, we invent more than just quality products, we provide solutions to industries' biggest challenges. For more than half a century, Henkel Loctite has continued to support this legacy of innovation with more than 1,500 active patents and over 5,000 total patents issued. Today, Henkel Loctite is a \$1.2 billion company with over 6,000 employees in more than 80 countries.

Our complete global manufacturing capabilities include over 2,500,000 square feet of manufacturing space in more than 27 worldwide locations, including research and development centers located in four worldwide centers of excellence.

It is a constant endeavor on our part to offer you the maximum value through solutions that provide more reliable and cost-effective assemblies. Our offering goes beyond the product itself and we strive to support you in:





# Threadlocking

# Locking of Threaded Fasteners

- Prevents loosening from shock and vibration
- Single part clean and easy to apply
- Can be used on various sizes of fasteners reduces inventory costs
- Seals threads
- Stops rust and corrosion

# Are the parts already assembled?

#### **Helpful Hints:**

■ Clean parts with Loctite® ODC-Free Cleaner and

Degreaser before applying the adhesive  If the threadlocker will be applied below 40°F, pre-treat with Loctite® 7649 (Primer N)  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	Wicking grade - Green	Low - Purple
Solution	290	222
Fastener Size	#2 to 1/2"	Up to 1/4"
Strength	Medium/High	Low
Cure Time (Fixture/Full Strength)*	20 min./24 hr.	20 min./24 hr.
Breakaway/Prevail Torque lb. in. (N.m.)	85/250 (10/29)	53/30 (6/4)
Temperature Resistance for Continuous Service	300°F (150°C)	300°F (150°C)

Typical value @ 70°F (22°C)

Available Sizes

Additio	Additional Products		
Name	Strength	Breakaway/ Prevail Torque (lb./in.)	Features
220	Low	85/170	Wicking
272	High	200/220	High Temp up to 1 1/2"
277	High	275/275	Fasteners up to 1 1/2"



50 ml, 250 ml

Yes



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

## Primer is optional with:

Active surfaces: Brass, copper, bronze, iron, soft steel, nickel

## Primer is required with:

Inactive surfaces: Aluminim, stainless steel, magnesium, zinc, black oxide, cadmium, titanium, others.



# Loctite® 290 Wicking Threadlocker

Recommended for locking pre-assembled 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.



50 ml, 250 ml

# Loctite® 222 Low Strength Threadlocker

Recommended for low-strength threadlocking of adjusting screws, countersunk head screws, and set screws; on collars, pulleys, tool holders, and controllers. Also for low strength metals such as aluminum or brass which could break during disassembly. Mil-Spec (S-46163A) Type II, Grade M.





	N	0		
What strength do you require?				
Medium - Blue	Medium - Blue	High - Red	Permanent - Green	
242®	243 (Improved Oil Tolerance)	262	270	
1/4" to 3/4"	1/4" to 3/4"	Up to 3/4"	Up to 3/4"	
Medium	Medium	High	Permanent	
10 min./24 hr.	10 min./24 hr.	20 min./24 hr.	30 min./24 hr.	
110/43 (12/5)	180/62 (20/7)	189/275 (22/32)	230/350 (26/36)	
300°F (150°C)	300°F (150°C)	300°F (150°C)	300°F (150°C)	
50 ml, 250 ml	50 ml, 250 ml	50 ml, 250 ml	50 ml, 250 ml	



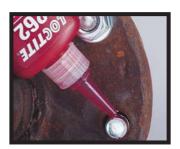
# Loctite® 242® Removable Threadlocker

Effective on all types of metal threaded fasteners. Prevents loosening on vibrating parts such as pumps, motor mounting bolts, gear boxes, or presses. Recommended for use where disassembly with hand tools is required for servicing. NSF®/ANSI 61. ABS Approved.



Loctite® 243 Threadlocker

Effective on all types of metal threaded fasteners. Prevents loosening on vibrating parts such as pumps, motor mounting bolts, gear boxes, or presses. Recommended for use where disassembly with hand tools is required for servicing and where parts are contaminated with oil. NSF®/ANSI 61. Agriculture Canada Approved.



Loctite® 262 High Strength Threadlocker

Red 262 is a high strength product that is applied to fasteners up to ¾" (20mm) in size before assembly.
Localized heating and hand tools are required to separate parts. Solvents will not weaken the adhesive bond.
Mil-Specs (S-46163A) Type II, Grade O. ABS Approved.
Agriculture Canada Approved.



Loctite<sup>®</sup> 270 High Strength threadlocker

A very high strength threadlocker which is perticularly suitable for heavy duty applications and on fastners where maximum strength is required.



# **Thread Sealing**

# Sealing of Threaded Components

- Replaces tapes and pastes
- Liquids ensure complete contact between threads for a 100% seal
- Liquids will not creep, shrink, shred, or block systems (including filters)
- Disassembly can be achieved easily with basic hand tools

# Are the parts metal or plastic?

## **Helpful Hints:**

- If the sealant (545, 565 or 567) will be applied below 40°F, pre-treat with Loctite® 7649 Primer N
- All parts must be clean & dry before sealing use Loctite® ODC-Free Cleaner and Degreaser

# Solution

Description	Cord	
Maximum Thread Size	4"	
Temperature Resistance	300°F (150°C)	
Maximum Pressure Resistance (psi) /Cure Time	10000 psi /instant	
Substrate to be Sealed	Metal, plastic or both	
Instant Low Pressure Seal	Yes	
Available Sizes	150 meters	

Additional Products	
Name	Туре
Thread Sealant 545	Low strength, fast curing for hydraulic / pneumatic fittings.
Thread Sealant 572	Slow curing for post-assembly adjustment of alignment of valves & fittings. Coarse threads. NSF approved.



Plastic and/or Metal

Cord

55

# Use Loctite® 7649 Primer N 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.

## Primer is optional with:

Active surfaces: Brass, copper, bronze, iron, soft steel, nickel

# Primer is required with:

Inactive surfaces: Aluminim, stainless steel, magnesium, zinc, black oxide, cadmium, titanium, others.

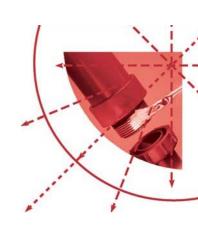


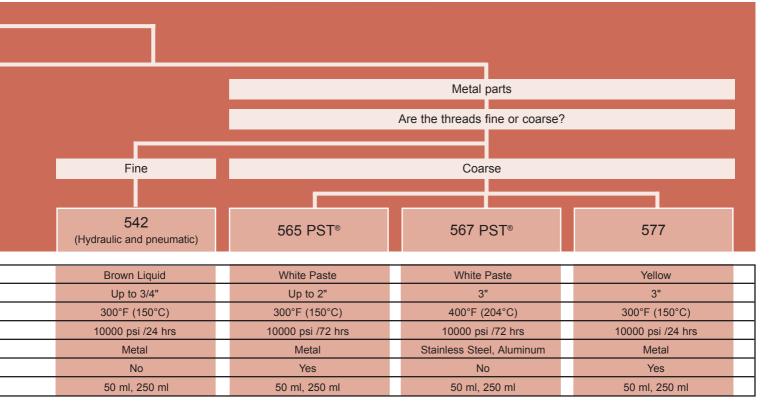
# Loctite<sup>®</sup> 55 Pipe Sealing Cord

Can be safely applied on metal and plastics threaded fittings.

Potable water: ANSI/NSF® Standard 61. UL Listed and Certified to CSA® International.









## Loctite® 542 Thread Sealant

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.



## Loctite® 565 PST® Thread Sealant

A general-purpose instant sealer for tapered and straight/tapered fittings.
Controlled strength for ease of disassembly.
CSA® 3319-81 and 3319-01.
UL® MH007(N). NSF®/ANSI 61.
ULC-Canada Approved.
Agriculture Canada Approved.



# Loctite® 567 PST® Thread Sealant

Withstands temperatures to 400°F with excellent solvent resistance. Locks and seals tapered pipe threads and fittings, including high pressure applications. Disassembles with hand tools. ABS Approved.



## Loctite® 577

Recommended for all coarse metal threads. Suitable for fast applications e.g. outdoor plant maintenance. Carries the German DVGW approval (NG-5146 AR0621) meets BS6956 type B for sealing gas fittings.

P1 NSF Reg. No: 123001



# Gasketing

# Sealing of Flanges

- No shimming effect controlled tolerances, no need for re-torquing
- Fill all voids reduce the need for a fine surface finish of flanges
- Parts can be disassembled easily even after extended service
- Resists high pressure when fully cured

# Are you sealing a rigid or a stamped flange?

## Helpful Hints:

- If there are traces of old gasket left on the parts to be sealed, clean with Loctite® Chisel® Gasket Remover
- All parts must be clean & dry before sealing use Loctite® ODC-Free Cleaner and Degreaser

■ Anaerobic products cure between metal surfaces with	Rigid		
the absence of air			
Solution	574 Flange sealant	510 Gasket Eliminator®	
Gap Fill	0.010" (0.25mm)	0.010" (0.25mm)	
Cure Method	Anaerobic	Anaerobic	
Tack-Free Time	N.A.	N.A.	
Temperature Resistance (Continuous/Intermittent)	300°F (150°C)/N.A.	400°F (204°C)/N.A.	
Instant Seal	Excellent	Excellent	
Oil Resistance	Excellent	Excellent	
Water/Glycol Resistance	Excellent	Excellent	
Available Sizes	50 ml, 250 ml	50 ml tube	

Additional Products	
Name	Туре
Loctite® 515	Anaerobic flange sealant for
Gasket Eliminator®	flexible applications.
Loctite® 573	Anaerobic flange sealant with
Flange Sealant	slow curing speeds for extended
	assembly operations.
Loctite® 595	Clear silicone. General purpose.
Superflex RTV Silicone Sealant	Withstands extreeme thermal cycling.
Loctite® 5920	Premium silicone, resists
Copper RTV Silicone Sealant	temparature to 700°F (intermittent).
	Excellent oil & chemical resistance.



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

Loctite® 574 Flange



Gasket Eliminator®
Flange Sealant
Recommended for use
on rigid iron and steel
flanges. Spray Loctite®
Primer N on only one

surface. UL® Listed.

Loctite® 510





		Starr	nped	
518 Gasket Eliminator®	596 Superflex® Red High Temp	587 Blue High Performance	5699 Superflex® Grey RTV Silicone	5900 Heavy Body RTV Silicone flange sealant
0.010" (0.25mm)	0.250" (6.35mm)	0.250" (6.35mm)	0.240" (6 mm)	0.240" (6 mm)
Anaerobic	Moisture (RTV)	Moisture (RTV)	Moisture (RTV)	Moisture (RTV)
N.A.	< 60 min.	50 min.	30 min.	20 min
300°F (150°C)/N.A.	500°F (260°C)/600°F (316°C)	400°F (204°C)/500°F (260°C)	400°F (204°C)/NA	400°F (204°C)/NA
Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Moderate	Excellent	Excellent	Excellent
50 ml tube	85 gms, 300 ml	95 gms, 300 ml	300 ml cart	300 ml cart



# Loctite® 518 Gasket Eliminator® Flange Sealant

Recommended for use on rigid iron, steel, and aluminum flanges.
Spray Loctite® Primer N on only one surface.
NSF®/ANSI 61
Certified. Agriculture
Canada Approved.



Loctite® 596Superflex® Red High Temp Silicone Sealant

Recommended for sealing all types of flanges including stamped sheet metal where high temperature resistance is needed.



Loctite® 587 Blue High Performance Silicone Gasket Maker

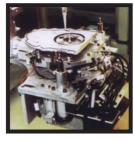
Recommended for sealing all types of flanges including stamped sheet metal. Designed for superior bonding properties to oil contaminated metals.

ABS Approved.



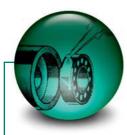
Loctite® 5699 Superflex® Grey RTV Silicone

For rigid assemblies.
Excellent fluid
resistance. Medium
Modulus, low
elongation, for low
relative joint movement.
Non-Corrosive to
aluminium, iron & steel.
Low odor, low volatility.



Loctite® 5900 Heavy Body RTV Silicone Sealant

Superior flexibility, withstand high relative joint movement. High adhesion, gives instant seal. Low odor, Low volaticity, Non-corrosive. Black in color.



# Retaining

# Securing Cylindrical Assemblies

- Bond non-threaded cylindrical metal assemblies
- High and moderate strength products can carry high loads and eliminate fretting
- Fill all voids prevent corrosion
- Reduce the need for close tolerances
- 100 % contact load and stress is distributed evenly over the joint

# Is the assembly badly worn?

Yes - Gaps up to 0.020" (0.5mm)

#### **Helpful Hints:**

- If the retainer will be applied below 40°F (5°C), pre-treat with Loctite® 7649 Primer N
- All parts must be clean & dry before sealing use Loctite® ODC-Free Cleaner and Degreaser
- If the parts have been in contact with washing or cutting fluids containing nitrites, wash with hot water

# Solution

660 Quick Metal®

Strength Required	High	
Shear Strength, psi (N / mm <sup>2)</sup>	3300 (23)	
Diametrical Clearance	Up to .020" (0.5 mm)	
Temperature Resistance	300 °F (150°C)	
Available Sizes	50 ml	

<sup>\*</sup> Requires heat cure to achieve temperature resistance

Additional Products	
Name	Туре
Loctite® 620	High temperature (200°C), high viscosity
	retaining compound. Max gap fill of 0.015"
	(0.4mm)
Loctite® 603	Excellent oil tolerance. For retaining close fitting
(Improved 601)	cylindrical path (up to 0.005" / 0.1 mm gap).



# Use Loctite® 7649 Primer N 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.

#### Primer is optional with:

Active surfaces: Brass, copper, bronze, iron, soft steel, nickel

#### Primer is required with:

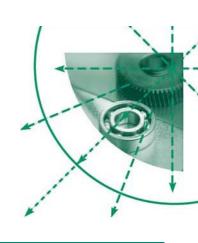
Inactive surfaces: Aluminim, stainless steel, magnesium, zinc, black oxide, cadmium, titanium, others.

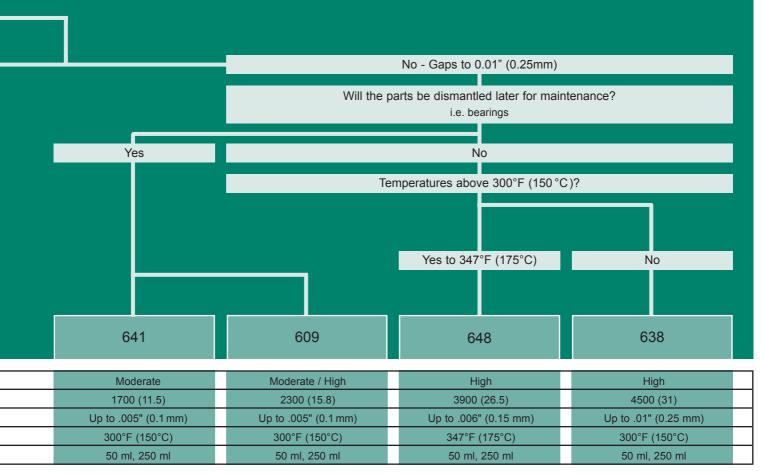


# Loctite® 660 Quick Metal® Retaining Compound

Used for repairing worn coaxial parts without remachining; enables re-use of worn bearing seats, keys, splines, tapers, or for retaining shims. Agriculture Canada Approved.









Loctite® 641
Recommended for medium strength retaining of bearings & bushes with slip fit. Easy disassembly. Thixotropic: will not drip, migrate to unwanted areas.



Loctite® 609 General Purpose Retaining Compound

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

Mil-Spec (R-46082B)
Type I.



Loctite® 648
Recommended for high temperature retaining of parts with a clearance or interference fit, i.e. retaining bushes, bearings, seals, fans, and liners.



Loctite® 638
Gives best resistance to dynamic, axial & radial loads.
Recommended for retainig shafts, gears, pulleys & similar cylindrical parts.
P1 NSF Reg. No: 123010



# **General Purpose Bonding**

- Assemble parts quickly and easily
- Repair broken parts
- Dissimilar parts can be bonded

#### What is the bonding application requirement? Metal to metal bonding Bond foam, fabrics Good impact Resist extreme resistance / flexibility wether conditions 324 High Impact Max Strength Solution SpeedBonder™ Spray Adhesive No mix Structural acrylic Spray Type Fixture Time 5 min N.A Temparature Resistance 275°F (135°C) 160°F (71°C) Shear Strength, psi (N/mm<sup>2</sup>) 2600 (18) Viscosity (cP) 17000 N.A. (Spray) Pack Size 50 ml, 250 ml 16.75 oz net wt. aerosol

Additional Products	
Name	Туре
Loctite® 480	Black, toughened instant adhesive for general filling.
Loctite® 420	Low viscocity instant adhesive. Wicking type plastic bonder.
Also Available :	Light cured adhesives, 2-part epoxies and urethanes.



# Loctite<sup>®</sup> 324 SpeedBonder<sup>™</sup>

Recommended for large gap applications. A structural adhesive that offers the strength of an epoxy & speed of an instant adhesive. Solvent resistant. Specially formulated for toughness & impact Strength.

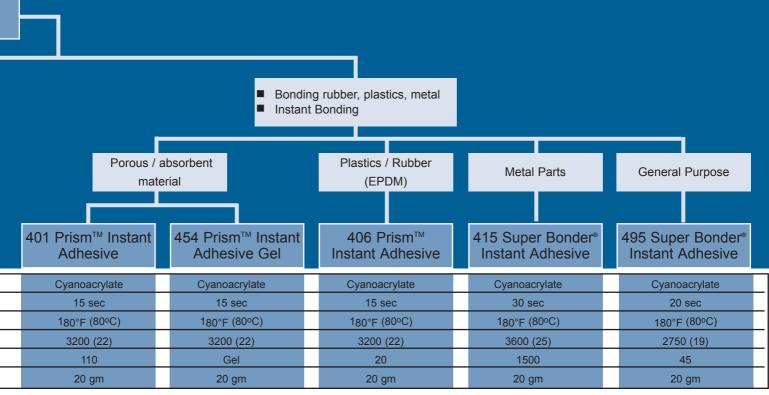


# Loctite® Max Strength Spray Adhesive

High Strength product designed for bonding foam, carpets, fabrics, plastics, rubber etc. Resistant to extreme weather conditions, and is water resistant. Sprays on clear.









Loctite® 401 Prism™
Surface insensitive
instant adhesive for
difficult-to-bond, porous
surfaces such as wood,

paper, leather or fabric.



Loctite® 454 Prism™
Surface insensitive gel.
Bonds porous &
absorbent surfaces.
Non-dripping, particularly suited for overhead applications.



Surface insensitive instant adhesive. Particularly suited for bonding rubbers & plastics. A must for every tool box for general maintenance & repair. Makes O-rings

Loctite® 406 Prism™



Super Bonder®
High Viscocity.
Offer maximum
adhesion to metals.
Ideal for bonding small
metal parts for general
maintenance.

Loctite® 415



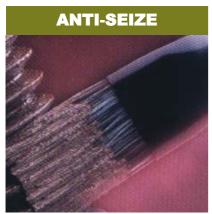
Super Bonder®
A general purpose adhesive designed to bond rubber, metal & plastic parts with gaps to 0.004".

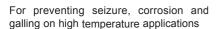
Loctite® 495



# **Additional Products**









- Copper based Anti-Seize
- Protects metal parts from rust, corrosion and galling at temperature upto 982°C
- Tested to MIL-PRF-907-E



- Heavy Duty, petroleum based lubricant compound fortified with graphite and metallic flake
- Inert, will not evoporate or harden in extreme cold or heat
- For use in assemblies up to 871°C



- Metal free. Excellent lubricity
- Provides outstanding lubrication to all metals including stainless steel, aluminium and soft metals up to 1315°C



- Copper free
- Recommended for stainless steel & other metal fittings
- For preventing corrosion, seizing and galling in harsh chemical environments and up to 1315°C



Moly Paste

- Low friction
- Lubricates press fits, protects during break-in and under high static loads up to 400°C
- Allows maximum clamping from available torque.



# Also Available

- Food grade Anti-Seize
- Moly-50 Anti-Seize
- Graphite-50 Anti-Seize
- N-7000 High Purity Anti-Seize



Two part epoxy resin. For repair and recovery of worn & damaged parts

S1

S3

HTA

Fixmaster<sup>6</sup>

Superior

Metal

- Steel filled epoxy putty
- For general repairs
- Steel filled epoxy putty ■ For curing
- Functional Strength in 30 minutes of room temp.
- An aluminium filled epoxy liquid which will withstand continous temperatures up to 190°C
- Ideal for renewing or protecting surfaces subject to corrosion, abrasion and harsh environments
- Ferro-silicon-filled for outstanding compressive strength and chemical resistance
- Trowelable, filled with ceramic fibers to give excellent wear and abrasion resistant properties Cures to a smooth, low friction

surface

■ For surface exposed to wear, erosion & cavitation

- Steel filled epoxy ■ Liquid form for easy pouring & S2 moulding
- Aluminium fill epoxy putty ■ Light in weight A1
- M
- A mineral filled epoxy putty which forms a self-lubricating surface on moving parts
- Highly wear resistant

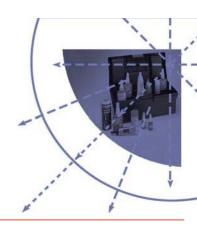
Fixmaster® Magic Steel

- Steel filled epoxy in stick form
- Cut off a section, knead and apply to leaking pipes and damaged equipment
- Cures in 10 minutes
- NSF approved

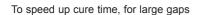
Fixmaster® Wear Resistance Putty

# Also Available

- Fixmaster® Fast Set Steel Putty
- Fixmaster® Steel Putty
- Fixmaster® Under Water Repair Epoxy
- Fixmaster® Wet Surface Repair



# ACTIVATORS LOCTIVATORS LOCTIVATORS LOCTIVATORS ACTIVATORS





- A non-CFC solvent based cleaning agent
- For cleaning & degreasing of parts to be bonded



- General purpose primer T, acetone, isopropanol solvent
- To speed the cure of Loctite anaerobic adhesives & sealants
- For bonded larger gaps
- For curing below 15°C temperature



- Activator for structural adhesives
- For passive metals and inert surfaces
- Use for large bond gaps



- General purpose primer N, acetone solvent
- To speed the cure of Loctite anaerobic adhesives & sealants.
- For bonding larger gaps
- For curing below 15°C temperature



- Activator for instant adhesives
- To increase cure speed of Loctite Tak pak, 480 & other instant adhesives
- Cures the adhesive completely in seconds through large gaps



- Polyolefin primer is a single component material which dries rapidly at room temperature
- Makes polyolefin, polyprophlene, polyethylene and other low energy surfaces suitable for bonding with Loctite instant adhesives



For cleaning and degreasing components prior to assembly / during maintenance



- Biodegradable, industrial strength concentrated cleaner & degreaser
- Free from ODCs. Non-toxic
- Can be economically diluted with water
- Formulated for pressure spraying or immersion cleaning processes at room temp. or heated.

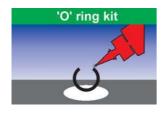


- Quickly strips & removes paints, varnishes and contact cements
- Works in 10-15 minutes
- Contains no ODCs



- Reduce time & labour costs associated with difficult to remove old gaskets
- Eliminate excessive scraping and potential damage to flanged surfaces
- conveniently spray liquid that penetrates and cleans intricate shapes

■ Chisel gasket remover lifts off baked-on gasket cements, carbon deposits, dried oil, grease and paint on any type of metal surface.Do not use on plastic,



- Contains all necessary components for making instant 'O' rings (adhesive not included)
- Eliminates the need for stock of various sizes of 'O' rings
- Provides an instant solution to maintenance problems
- MM size 1.6, 2.4, 3.2, 4.8, 5.7, 6.4 & 8.4 mm dia
- Inch size 1/16, 3/32, 1/8, 3/16 & 1/4 inch dia

# Finding Better Ways

Loctite® engineering adhesives and sealants are designed to offer you more reliablity and cost-savings over conventional assembly methods.

assembly methods.	ussembly methods.				
	THREADLOCKING				
Conventional method	Problem	Loctite Threadlockers			
Locknuts	<ul> <li>Double cost.</li> <li>Requires extra space.</li> <li>Corrodes in place.</li> <li>Time consuming to assemble.</li> </ul>	<ul> <li>Locks single nut.</li> <li>Uses standard parts.</li> <li>Seals against corrosion.</li> <li>Fast assembly.</li> </ul>			
Spring Washers	<ul> <li>Not an effective locking system.</li> <li>Can damage contact faces.</li> <li>Large inventory.</li> </ul>	Completely vibration proof. No damage, no corrosion. One bottle for all size threads.			
Nylon Inserts	<ul> <li>On-torque needed.</li> <li>Ineffective under severe vibration.</li> <li>Requires good access.</li> <li>Should not be re-used.</li> </ul>	<ul> <li>Low on-torque.</li> <li>Effective in adverse conditions.</li> <li>Easy to apply.</li> <li>Allows parts to be re-used.</li> </ul>			
Tabwashers / Split pins	<ul><li>Difficult production use.</li><li>Expensive.</li><li>Special design required.</li></ul>	Apply manually or automatically.     Uses standard parts.			
	THREADSEALING	3			
Conventional method	Problem	Loctite Thread Sealants			
Tapes	<ul> <li>Shredding clogs pipes.</li> <li>Manual application only.</li> <li>Elbow alignment -         Overtightening causes damage</li> </ul>	<ul> <li>Unused sealant flushes away.</li> <li>Automation possible.</li> <li>Seals / locks in any position.</li> <li>Vibration proof.</li> </ul>			
'O' rings	<ul><li>Large inventory needed.</li><li>Easily damaged.</li><li>Special joint design.</li></ul>	<ul> <li>Universal Products.</li> <li>No additional parts to handle.</li> <li>Uses standard parts.</li> </ul>			
Cone Fittigs	<ul><li>Costly machining.</li><li>Easily damaged.</li></ul>	Uses standard parts.  Use with damaged cone fitting to ensure complete seal.			
	GASKETING				
Conventional method	Problem	Loctite Gasketing Compound			
Pre-formed materials	<ul> <li>Relaxation.</li> <li>Re-torquing.</li> <li>Corrosion / fretting.</li> <li>Manual application.</li> <li>Large inventory.</li> </ul>	Constant seal / no re-torquing.     Total seal.     Automation possible.     Low inventory, one bottle makes required shape & sizes.			
'O' rings	<ul> <li>Manual application.</li> <li>Extra machining application.</li> <li>Large inventory.</li> </ul>	<ul> <li>Automation possible.</li> <li>Standard parts used.</li> <li>No parts to handle.</li> <li>Low inventory.</li> </ul>			
Cutting Paper Gasket	<ul> <li>Time consuming.</li> <li>Operator skill.</li> <li>Inconsistent performance.</li> </ul>	<ul><li>Little preparation.</li><li>Easy to apply.</li><li>Constant performance.</li></ul>			
RETAINING					
Conventional method	Problem	Loctite Retaining Compound			
Press Fit	<ul><li> High stress.</li><li> Fretting possible.</li><li> Assembly equipment required.</li></ul>	<ul> <li>Load spread over joint.</li> <li>Can use lighter parts.</li> <li>No fretting.</li> <li>Hand assembly possible.</li> <li>Relaxed tolerances.</li> </ul>			
Grub Screws / Pins	<ul> <li>Poor metal to metal contact.</li> <li>Low torque transmission.</li> <li>High stress concentration.</li> </ul>	100% contact.     Total surface contact creates high torque capability.			
Keys	<ul> <li>Prone to backlash and chattering.</li> <li>Costly to produce.</li> <li>Accurate machining.</li> </ul>	<ul> <li>No movement, fretting eliminated.</li> <li>One adhesive suits many applications.</li> <li>Allows relaxed tolerances.</li> </ul>			
Splines	<ul><li>Costly machining.</li><li>Special design.</li><li>Prone to wear.</li></ul>	<ul> <li>Basic machining.</li> <li>Normal parts.</li> <li>No movement / fretting.</li> </ul>			





Fill and forward to 080-5357771 by fax or e-mail to marketing@loctite.co.in Name ...... Designation...... Company .......Nature of industry ...... City State Phone Extr. Tick the appropriate boxes. Add extra sheets if necessary. Plant Survey Please depute a Loctite representative for conducting a plant survey and suggest opportunities for cost-savings and improvements in reliability. **Demonstration & Seminar** Please depute a Loctite representative for a product demonstration and seminar in our plant. Please contact Mr./ Ms. Designation for the seminar. Technical Support We need an immediate Loctite solution to the problem described below. Please depute a Loctite representative to attend this at the earliest. Problem equipment Nature of problem **Henkel Loctite India Technical Centre** We are interested in knowing more about the new Henkel Loctite India Technical Centre. Please depute a Loctite representative to tell us more about it. Please send us literature. We are interested in visiting the new Henkel Loctite India Technical Centre.

Please ask a Loctite representative to contact us for scheduling a visit.



# A History of Innovation





Henkel Loctite believes in innovation. Consistently investing in the people, facilities, and materials needed to be a world leader in technology that addresses your needs. Henkel Loctite has a dedicated worldwide R&D staff of over 230, including 96 PhD chemists and engineers, and 6% of total revenue is committed to R&D annually.

Over the last 50 years, Henkel Loctite R&D has provided industry with an impressive list of technical innovations:

#### 1950s

Invented anaerobic technology for thread treatment and gasketing

#### 1960s

• Developed the first one-part, room temperature, industrial adhesive: "Super Glue"

#### 1970s

- Developed silicone gasketing technology
- Developed surface-insensitive CAs (super glues)
- Developed thermally resistant CAs (super glues)

#### 1980s

- Developed UV curing adhesives for polycarbonate bonding
- Developed visible light curing adhesive technology
- Developed non-running gel CAs
- Developed gap-filling CAs
- Developed black, rubber-toughened CAs
- Developed CAs for low-energy plastics bonding
- Commercialized industrial UV curing silicones

#### 1990s

- Developed black, rubber-toughened, thermally resistant CAs
- Developed non-oxime silicone technology
- Developed clear, rubber-toughened, thermally resistant CAs
- Developed UV curing CAs: Flashcure™
- Developed UV curing, pigmented molding compounds for hearing aid fabrication

#### 2000s

- Developed solid, stick form for threadlocker, thread sealant, and anti-seize technologies
- Developed NSF- and CSA-approved thread sealing cord

With the widest range of adhesives, sealants and speciality maintenance solutions and global application experience we are best equipped to cater to your requirements.

# Notes

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