

THE PROBLEM SOLVER

Problem	Solution
Vibrational loosening	Threadlocking
Leaks – gasket, oil, transmission, coolant	Gasketing & Sealing
Backlash, key wallowing, spun bearings, shaft alignment, wear	Retaining Compounds
Leaks – air, hydraulic, fouled valves	Thread Sealing
Fastening and joining	Bonding – Acrylic, Cyanoacrylate, Epoxy & Urethane, Hot Melt
Rust, corrosion, galling, or seizing on metal threaded and unthreaded assemblies	Anti-Seize Compounds
Worn surfaces/damaged parts	Epoxies Refer to Loctite Surface Engineering Catalogue
Damaged conveyor belts	Belt Repair/Urethanes Refer to Loctite Surface Engineering Catalogue
Worn or corroded surfaces – material handling equipment	Wearing Compounds Refer to Loctite Surface Engineering Catalogue

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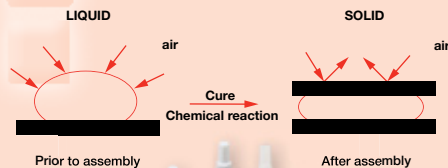
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Did You Know?

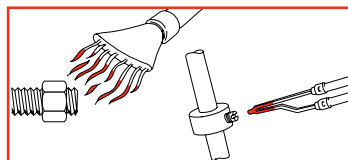
How does an Anaerobic Adhesive work?

Anaerobic adhesives are single-component materials which cure at room temperature when deprived of contact with oxygen. Curing begins when the two metal parts are mated together and any adhesive outside of the joint or thread remains liquid.

The capillary effect of the anaerobic liquid adhesive carries it into even the smallest gaps to fill the joint. The cured adhesive is then 'keyed' to the surface roughness of the parts forming a tough thermoset plastic, which bonds the components and seals against moisture or chemical attack.



HIGH STRENGTH DISASSEMBLY



Localised Heating Methods

1. Apply localized heat to nut or stud (230°C for 5 minutes).
2. Disassemble while HOT.

Note: Use standard hand tools for disassembly of low and medium strength Threadlockers.

Primers & Activators

When should I use a Loctite primer?

Speed up cure – Use a Loctite primer to significantly speed up the cure time of Loctite anaerobic adhesive when assembling metal parts that are cold, have large gaps or deep threads.

Inactive metal assemblies – When assembling metal parts with inactive surfaces, Loctite primers are recommended to ensure proper performance of Loctite anaerobic adhesives.



Active Surfaces (Primer optional)	Brass, copper, bronze, iron, soft steel
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Inactive Surface (Primer required)	Aluminium, stainless steel, magnesium, zinc, black oxide, cadmium, titanium, nickel, others
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Unexpected downtime?

We can fix that.



Loctite Maintenance Workshops provide hands on training to increase reliability and to reduce costs.

To learn more call 1300 88 555 6.

LOCTITE®

Product Information Pocket Guide

 Excellence is our Passion

Loctite® Threadlocking	Strength / Colour	FEATURES	Recommended Primer	Size of Thread	Temperature Resistance
Loctite® 243 SUPER NUT LOCK	Medium	<ul style="list-style-type: none"> General purpose with improved oil resistance Disassembly with normal tools 	7471	Up to M36	180°C
Loctite® 263 SUPER STUD LOCK	High	<ul style="list-style-type: none"> General purpose with improved oil resistance. Disassembly with Direct heat 	7649	Up to M36	180°C
Loctite® 290 WICK-IN / AFTER LOCK	Medium / High	<ul style="list-style-type: none"> Wicking grade for preassembled fasteners Porosity sealing capabilities (welds, castings) 	7649	Up to M12	150°C

Loctite® Thread Sealing	Strength / Colour	FEATURES	Recommended Primer	Thread Size	Temperature Resistance
Loctite® 567 MASTER PIPE SEALANT	Low White	<ul style="list-style-type: none"> Excellent chemical resistance Pressure tested to 10,000 PSI Easy dismantling with normal tools AGA Certificate 3207 to 1050kPa (Gas) 	7649	76mm (3")	205°C
Loctite® 569 HYDRAULIC SEALANT	Low	<ul style="list-style-type: none"> Dismantles with normal tools Pressure tested to 10,000 PSI AGA Certificate 3375 to 10 50kPa (Gas) Seals fine threaded metal fittings on hydraulic, pneumatic and fuel systems 	7471	19mm (3/4")	150°C
Loctite® 577 HIGH PRESSURE PIPE SEALANT	Medium	<ul style="list-style-type: none"> For use with parallel or tapered fittings Pressure tested to 10,000 PSI Seals coarse metal threads in low temperature applications where fast cure is required Potable water approval AS/NZs 4020, AGA Cert. 4787 (to 2600kpa) 	7649	76mm (3")	150°C

Loctite® Gasketing	Flange Type / Colour	FEATURES	Recommended Primer	Oil Resistance	Temperature Resistance
Loctite® 515 MASTER GASKET	Semi-Flexible	<ul style="list-style-type: none"> Rigid machined flanges with less than 0.5mm gap Flexes when flanges move in service AGA certificate 2590 to 690kPa (Gas) 	7649 / 7471	Excellent	150°C
Loctite® 587 BLUE MAXX SILICONE	Flexible	<ul style="list-style-type: none"> Oxygen sensor safe Non-corrosive, low odour, low volatile 	n/a	Outstanding	260°C

Loctite® Lubricating	Colour	FEATURES	N.L.G.I. Class	Temperature Range	Features
Heavy-Duty ANTI-SEIZE	Grey	<ul style="list-style-type: none"> Metal-free formulation Non-hazardous Outstanding lubrication to all metals including stainless steel aluminum and soft metals 	1	-30 to 1315°C	Good Chemical Resistance

Loctite® Retaining	Strength / Colour	FEATURES	Recommended Primer	Temperature Resistance	Gap Filling
Loctite® 609	Medium	<ul style="list-style-type: none"> Excellent load transmission capabilities Tested and approved for use on bearings Dismantles with press or pullers 	7471	150°C	Up to 0.2mm
Loctite® 660 QUICK METAL PRESS FIT REPAIR	High	<ul style="list-style-type: none"> Used for repairing worn coaxial parts without remachining Excess does not cure; allows easy cleanup 	7471	150°C	Up to 0.5mm

Loctite® Instant Bonding / Cyanoacrylate	Fixture Time / Colour	FEATURES	Operating Temperature	Especially for	Viscosity
Loctite® 401 ULTRA FAST	5 - 20 sec Clear	<ul style="list-style-type: none"> General purpose, surface insensitive instant adhesive for most versatile application areas Ultra-fast fixture speed 	Up to 120°C	Plastics, metals, elastomers	Low
Loctite® 406 DIFFICULT TO BOND SUBSTRATES	5 - 20 sec Clear	<ul style="list-style-type: none"> General purpose grade for difficult-to-bond materials that require uniform stress distribution Ultra-fast fixture speed 	Up to 120°C	Rubbers, PO plastics, elastomers	Low
Loctite® 480 TOUGHENED	60 - 120 sec Black	<ul style="list-style-type: none"> Black, rubber toughened grade For applications where high peel and shear strength is required or shock loads are present 	Up to 80°C	Metal-to metal, metal-to-plastic, metal-to-rubber	Low

Loctite® Structural Bonding	Fixture Time / Colour	FEATURES	Operating Temperature	Especially for	Viscosity
Loctite® 3805 STEEL & ALUMINUM EPOXY FILLER	15 min Grey	<ul style="list-style-type: none"> Can be drilled, tapped, threaded or filed and is an excellent electrical insulator Ideal for repairs, filling, bonding to iron steel brass, bronze, aluminum and copper Typically used under speedy sleeves 	Up to 150°C	Rebuilding of surfaces	Heavy Paste

Loctite® Surface Preparation	Use with/Colour	FEATURES	On Part Life	Dry Time	Base
Loctite® 7649 PRIMER 'N'	Anaerobic Green	<ul style="list-style-type: none"> Used where accelerated cure speed is required, or in cold weather, and where gaps exceed normal recommendations 	30 Days	30 - 70 Sec	Acetone

Loctite® Hand Cleaning	Odour / Colour	FEATURES	Functions	Appearance
Loctite® Yuk Off Orange HAND CLEANER	Mild Citrus Off White	<ul style="list-style-type: none"> Contains no harmful petroleum solvents, conditions skin with lanolin, aloe and jojoba Pumice formula removes the toughest grease, dirt, oil, ink Biodegradable and non-toxic 	Cleans with or without water	Textured Cream