

LOCTITE®

Henkel Technologies



maintenance solutions



Henkel Technologies

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Proactive Partnership

Throughout your manufacturing process, maintaining the plant and machinery at its peak performance is one of the most critical tasks. And we are committed to a proactive partnership with you in perfecting this mission.

Loctite® Maintenance Solutions are designed to maximize the productivity of your plant and machinery. They are great tools available to you for minimizing the downtimes and operating costs, and maximizing the plant efficiency.

The complete range of product families offer solutions to rebuild, repair and restore damaged parts to service - quickly, conveniently and reliably, as well as for protecting and extending the service life under extreme operating environments.

Loctite® total solution package includes plant survey and identification of opportunities for cost savings, product application support and training to the end-users. With the unmatched distribution network and coverage, Loctite® solutions are just a call away.

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.

With this comprehensive guide for maintenance engineers across industries, you can select the right Loctite product needed for keeping your plant at its peak performance and for creating savings in maintenance costs.

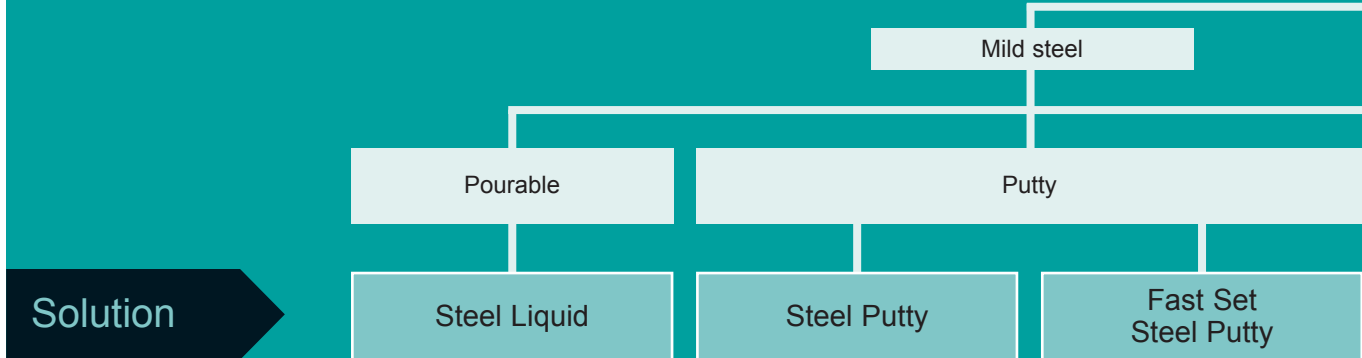
For any assistance on our products & services, all you have to do is to e-mail us at marketing@loctite.co.in



Metal Rebuilding and Shaft Repair

- High compressive strength
- Choice of mild steel aluminum or non-metallic fillers
- Can be machined, drilled, or tapped after cure
- Excellent resistance to aggressive chemicals

Repair or rebuild damaged parts



Solution	Steel Liquid	Steel Putty	Fast Set Steel Putty
Color	Grey	Grey	Grey
Maximum Temperature	225°F (107°C)	225°F (107°C)	200°F (93°C)
Working Time*	25 min.	30 min.	3 min.
Cure Time*	6 hrs.	6 hrs.	10 min.
Compressive Strength	13,500 psi	11,100 psi	10,800 psi
Available Sizes	1 lb., 4 lb., 16 lb.	1 lb., 4 lb., 25 lb.	1 lb. kit

* at 77°F (25°C)

Additional Products

Name

- Fixmaster® Stainless Steel Putty
- Fixmaster® Fast Set Steel Epoxy
- Fixmaster® Wet Surface Repair Putty
- Fixmaster® Underwater Repair Epoxy



Loctite® Fixmaster® Steel Liquid

High steel content. Pourable liquid filler used for making fixtures and molding. ABS Approved.



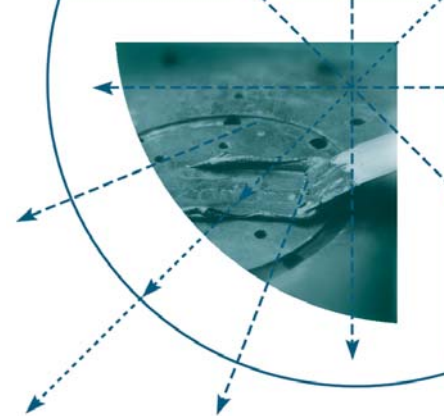
Loctite® Fixmaster® Steel Putty

High steel content putty. Recommended for repairing and rebuilding worn steel components, such as bearing and fan housings. ABS Approved.



Loctite® Fixmaster® Fast Set Steel Putty

A fast curing version of steel putty. Recommended for repairing pipes and other emergency repairs. ABS Approved.



What material are you filling?

Aluminum

Kneadable stick

Pourable

Putty

High performance chemical resistance

Metal Magic Steel™

Aluminum Liquid

Aluminum Putty

Superior Metal

Dark grey

Light grey

Light grey

Grey

250°F (121°C)

200°F (93°C)

200°F (93°C)

250°F (121°C)

3 min.

20 min.

20 min.

20 min.

10 min.

6 hrs.

6 hrs.

6 hrs.

12,000 psi

17,000 psi

11,300 psi

18,000 psi

4 oz. stick

1 lb. kit

1 lb. kit

408 gms.



Loctite® Fixmaster® Metal Magic Steel™

Kneadable two-part paste. Working time is 3 minutes - sets in 10 minutes. Adheres to damp surfaces. Can be drilled, filed, and painted. Ideal for emergency sealing of leaking tanks and pipes. Smooths welds, repairs small cracks in castings, and fills oversized bolt holes.



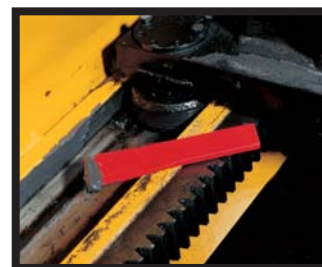
Loctite® Fixmaster® Aluminum Liquid

Fluid, self-leveling aluminum liquid. Can be poured into molds and cavities. Recommended for casting aluminum replacement parts and for making molds. ABS Approved.



Loctite® Fixmaster® Aluminum Putty

General purpose, aluminum putty for repair of all aluminum alloy components. ABS Approved.



Loctite® Fixmaster® Superior Metal Putty

Formulated with fine alloy particles with high compressive strength and chemical resistance. Recommended for use on all metals. Outstanding compressive strength, chemical resistance, non-rusting.



Wear Prevention and Rebuilding

- Restores worn surfaces
- Provides wear and impact resistant coatings
- Use on new parts to extend life
- Available in both trowelable and brushable forms

Repair, rebuild, or protect wearing surfaces

Helpful Hints:

- Clean Surfaces with Loctite® ODC-Free Cleaner and Degreaser
- Use expanded metal to fill large voids
- Roughen surfaces to ensure adhesion

Solution

Coarse

Wearing Compound

High Impact Wearing Compound

Color	Grey	Grey
Maximum Temperature	250°F (121°C)	250°F (121°C)
Working Time*	30 min.	30 min.
Cure Time*	7 hrs.	6 hrs.
Available Sizes	5 lb., 25 lb. kits	25 lb. kit

* At 77°F (25°C)

Additional Products

Name	Type
Nordbak® High Temp Wearing Compound	450°F (232°C)
Nordbak® High Temp Pneu Wear	450°F (232°C)
Nordbak® Ultra High Temp Wearing Compound	550°F (288°C)
Nordbak® Ultra High Temp Pneu Wear	550°F (288°C)
Nordbak® Fast Cure Wearing Compound	3 hr. cure
Nordbak® Fast Cure Pneu Wear	3 hr. cure
Nordbak® High Temp Brushable Ceramic	550°F (288°C)
Nordbak® Chemical Resistant Coating	150°F (66°C)
Nordbak® Castable Wearing Compound	Mold wear resistant parts
Nordbak® Ceramic Tile Adhesive	200°F (93°C)
Fixmaster® Flex Metal Primer	Promotes the adhesion of Loctite® Flex Urethanes to metal



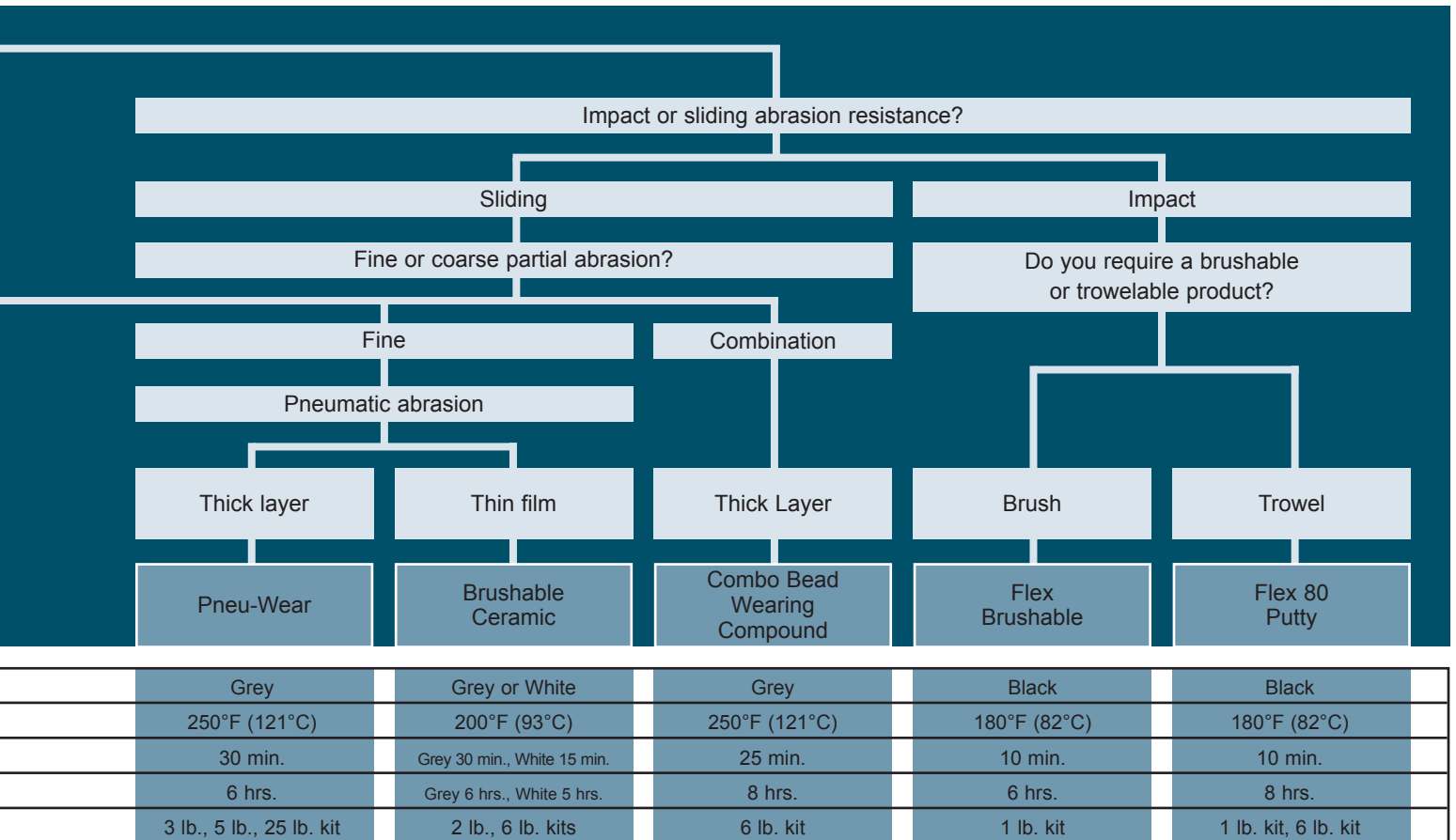
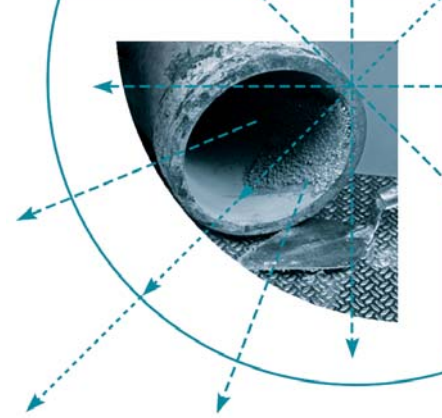
Loctite® Nordbak® Wearing Compound

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



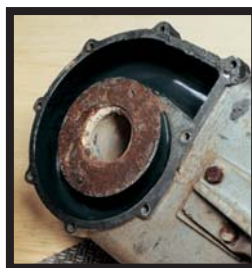
Loctite® Nordbak® High Impact Wearing Compound

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



Loctite® Nordbak® Pneu-Wear

Resists fine particle abrasion caused in pipe elbows of pneumatic conveyor systems. ABS Approved.



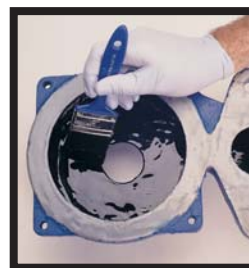
Loctite® Nordbak® Brushable Ceramic

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



Loctite® Nordbak® Combo Bead

Wearing Compound Combines the abrasion resistance properties of both large and small ceramic beads and silicone carbide in a trowelable, non-sagging epoxy paste.



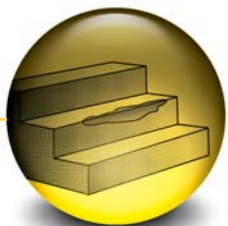
Loctite® Fixmaster® Flex Brushable

This two-part urethane brushes on to form abrasion and impact-resistant linings. ABS Approved. Use Flex accessories to properly etch, clean, and prime surfaces.



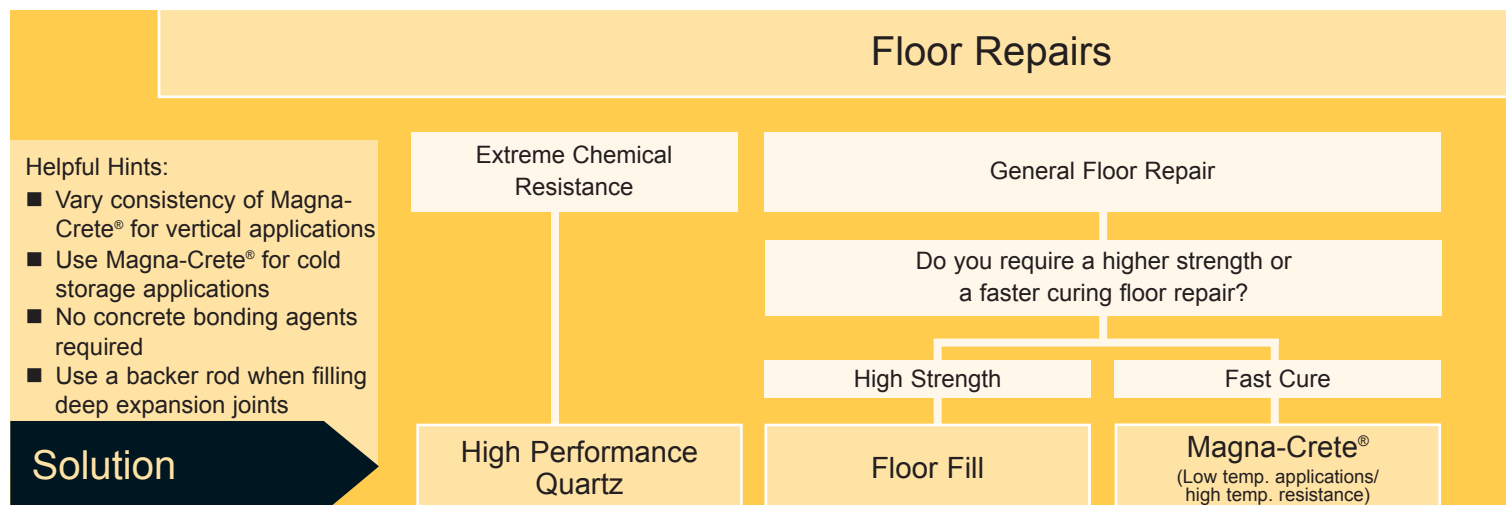
Loctite® Fixmaster® Flex 80 Putty

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



Floor Repair and Grouting

- Chemical and corrosion resistance
- High impact resistance
- Bonds to concrete, wood, metals, brick, and other common building materials



Color	Grey	Grey	Grey
Maximum Temperature	150°F (66°C)	225°F (107°C)	2,000°F (1,093°C)
Compressive Strength	12,000 psi	15,000 psi	13,000 psi
Working Time	45 min.	40-60 min.	15 min.
Functional Cure	24 hrs.	24 hrs.	1 hr.
Chemical Resistance	Excellent	Good	Fair
Available Sizes	42 lb. kit	10 lb. Kit, 40 lb. Kit	1 gallon kit, 5 gallon kit



Loctite® Fixmaster® High Performance Quartz

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



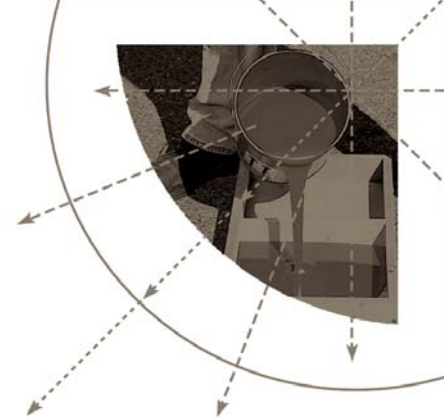
Loctite® Fixmaster® Floor Fill

A three-component, self-leveling, non-shrinking epoxy floor repair system. 100% solids, epoxy-based system for repairing holes in floors, spalled areas, ramps, stairs, cracks in floors, and for use in grouting applications. Stronger than concrete, it bonds to almost any clean substrate and provides corrosion and chemical resistance.



Loctite® Fixmaster® Magna-Crete®

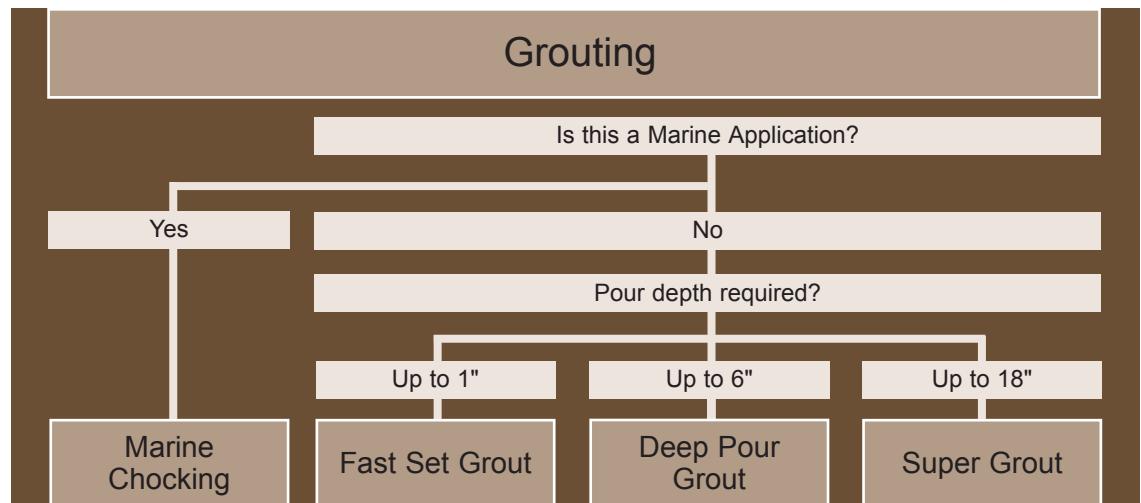
This two-component magnesium phosphate cement sets rapidly and has a very high early strength. Ideal for road and aircraft runway repairs, which can typically be driven over after 45 minutes. It bonds to new and old concrete as well as most construction materials including wood, glass, and steel. No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



Filling Expansion
Joints

Flex 80 Liquid

Grouting



Black	Green or Orange	Red	Black	Red
180°F (82°C)	250°F (121°C)	200°F (93°C)	225°F (107°C)	225°F (107°C)
N.A.	22,000 psi	14,500 psi	14,500 psi	12,900 psi
20 min.	10-15 min.	10 min.	30 min.	285 min.
8 hrs.	24 hrs.	12hrs.	24 hrs.	24 hrs.
Fair	N.A.	N.A.	N.A.	N.A.
1 lb. kit, 6 lb. kit	2 gallon kit	2 gallon kit	5 gallon kit	5 gallon kit



Loctite® Fixmaster® Flex 80 Liquid

A castable two-part urethane for making molds, fixtures, expansion joints, and non-scratching holding fixtures.



Loctite® Fixmaster® Marine Chocking

Self-leveling, fast-curing, non-shrinking grout. Outstanding chemical and vibration resistance and compressive strength to withstand maximum loads. Approved by the American Bureau of Shipping.



Loctite® Fixmaster® Fast Set Grout

Self-leveling, non-shrinking grout for installing machinery and setting anchor bolts. Cures quickly. Can be poured up to 1" thick. Compression strength and chemical resistance are superior to concrete. Forms strong bonds to old concrete and to itself.



Loctite® Fixmaster® Deep Pour Grout

Aggregate-filled, epoxy system for pours up to 6" deep, including self-leveling applications under rails and sole plates. High strength material bonds to steel, concrete, and itself. Withstands high torque load.



Loctite® Fixmaster® Super Grout

Designed for grouting up to 18" deep, including self-leveling applications under rails and sole plates. Super Grout is a 100% solids epoxy system that is non-shrinking, chemical and corrosion resistant, stronger than concrete, and withstands high torque loading.



Belt Repair

- Repair gouges, cuts, and worn edges on rubber belting
- Non-shrinking and unaffected by oil, grease, and water
- Excellent flexibility and elongation

Conveyor Belt Repair

Helpful Hints:

- Rapid Rubber 400 ml cartridges and kit require Rapid Rubber Repair Gun, Part Number 39635
- Instant Belt Repair requires heat
- Instant Belt Repair can be applied at any temperature
- Use the recommended accessory products to ensure maximum adhesion and product reliability

Solution

Temporary

Instant
Belt Repair

Color	Amber
Working Time	N.A.
Tensile Strength	400 psi
Functional Cure	30 min.
Available Sizes	1 lb.

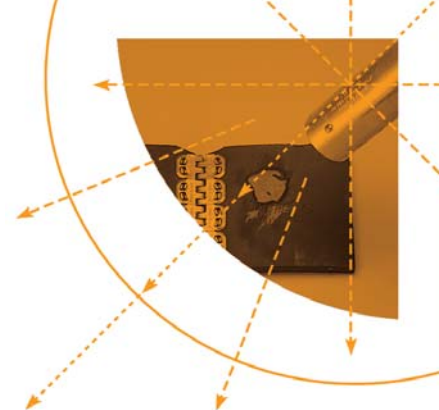
Additional Products

Name	Features
Fixmaster® Flex Rubber Primer	Promotes adhesion to rubber and urethane surfaces
Fixmaster® Etching Agent	Enhances bonds to natural, SBR and Butadiene rubber
Fixmaster® Flex Accelerator	Speeds the cure of Flex Urethanes
Fixmaster® Flex Cleaner	Cleans rubber, urethane or metal



Loctite® Fixmaster® Instant Belt Repair

A single-component, heat-curing material for fast, temporary belt repairs. Requires no priming. Equipment can be operated in 30 minutes.



Is this a temporary or a long term repair?

Long Term

Do you require a fast return to service
or a long working time?

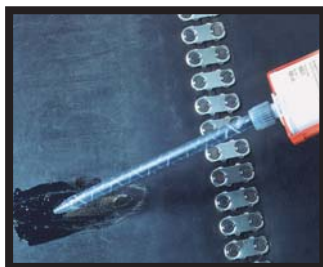
Fast Return to Service

Longer Working Time

Rapid Rubber
Repair

Flex Conveyor
Belt Repair Kit

Black	Black	
1 min.	10 min.	
1,300 psi	1,500 psi	
2 hrs.	8 hrs.	
400 ml kit, 400 ml cart.,	1 lb. kit	



Loctite® Fixmaster® Rapid Rubber Repair Urethane

Our premium quality, belt repair product is designed to repair conveyor belts and other damaged rubber equipment quickly and easily. Repairs will have the same durability and flexibility as the belt. The 400 ml cartridge requires the use of a Rapid Rubber Repair Gun. Also available in a kit with etching agent and cleaner.



Loctite® Fixmaster® Flex Conveyor Belt Repair Kit

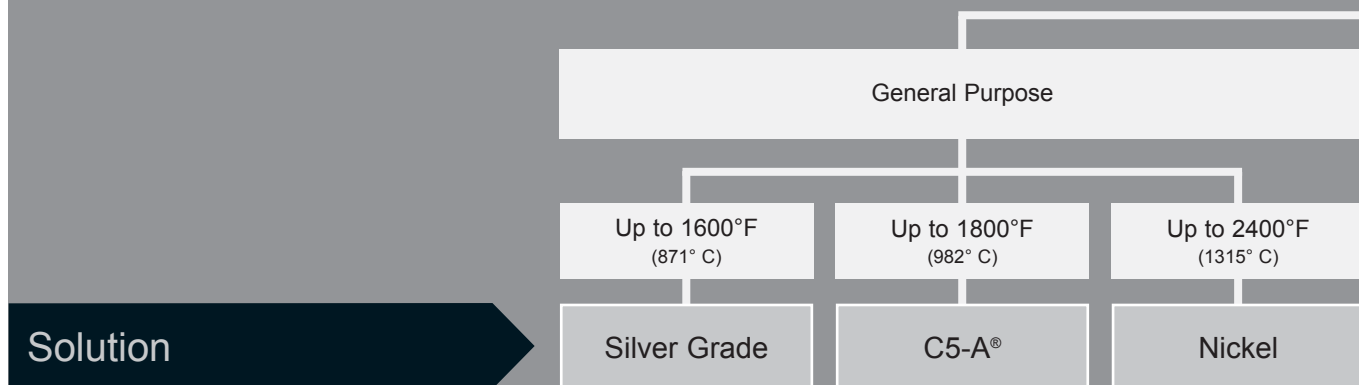
Makes long-lasting belt repairs. Recommended for applications where speed of application is not critical. Cures in 8-12 hours.



Anti-Seize Lubrication

- Protect against rust, corrosion, seizing, and galling
- Provide lubrication in extreme environments

What type of Anti-Seize do you require?



Color	Silver	Copper	Silver
Solid Lubricating Agent	Graphite/Aluminum	Copper/Graphite	Nickel/Graphite
Torque Coefficient*	0.18	0.16	0.15
Temperature Range	-20°F - 1600°F (-29°C - 870°C)	-20°F - 1800°F (-29°C - 982°C)	-20°F - 2400°F (-29°C - 1315°C)
Available Sizes	1 lb, 1 gal	1 lb, 8 lb, 42 lb	1 lb, 8 lb

* K value on steel nuts and bolts

Additional Products		
Name	Max Temp	Features
White Hi-Temp	2000°F (1093°C)	Non-Metallic, High Temp
N-1000	1800°F (892°C)	Power Plant, Copper Based
N-5000	2400°F (1315°C)	Power Plant, Nickel Based
N-5000 High Performance	2400°F (1315°C)	Power Plant, Nickel Based, High Lubricity
N-7000	2400°F (1315°C)	Power Plant, Metal Free
Moly-50	750°F (399°C)	Thread Lubricant
Graphite-50	900°F (482°C)	Electrically Conductive Nonmetallic
Moly Paste	750°F (399°C)	Withstands extreme pressure, heavy loads



Loctite® Silver Grade Anti-Seize

Heavy-duty, temperature-resistant, petroleum-based lubricant compound fortified with graphite and metallic flake. Inert, will not evaporate or harden in extreme cold or heat. For use in assemblies up to 1600°F (871°C). ABS Approved. Tested to MIL-PRF-907E.



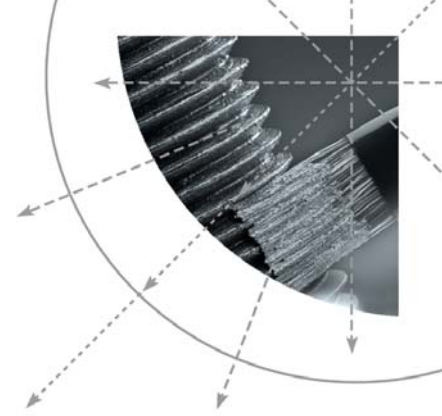
Loctite® C5-A® Copper Based Anti-Seize

Exclusive formula suspends copper and graphite in a high-quality grease. Protects metal parts from rust, corrosion, galling, and seizing at temperatures to 1800°F (982°C). Tested to MIL-PRF-907E.



Loctite® Nickel Anti-Seize

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



Stainless Steel and
Titanium Applications

Soft Metal
Applications

Incidental
Food Contact

Water Resistant

Heavy Duty

Zinc

Food Grade

Marine Grade

Black

Grey

White

Black

Graphite/Calcium Fluoride

Zinc

White Lubricating Solids

Calcium Sulfonate

0.16

0.15

0.16

0.18

-20°F - 2400°F
(-29°C - 1315°C)

-20°F - 750°F
(-29°C - 399°C)

-20°F - 750°F
(-29°C - 399°C)

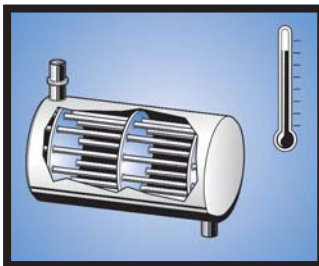
-20°F - 2400°F
(-29°C - 1315°C)

1 lb, 45 lb

1 lb

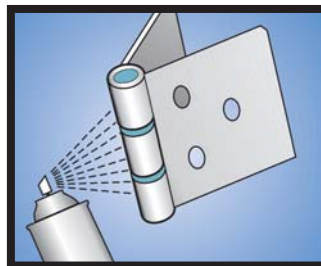
8 oz., 2 lb

8 oz., 16 oz.



Loctite® Heavy Duty Anti-Seize

Metal-free. Excellent lubricity. Provides outstanding lubrication to all metals including stainless steel, aluminum, and soft metals up to 2400°F (1315°C).



Loctite® Zinc Anti-Seize

Protects aluminum and ferrous surfaces from seizure and corrosion up to 750°F (399°C).



Loctite® Food Grade Anti-Seize

Prevents seizure, galling, and friction in stainless steel and other metal parts up to 750°F (399°C).



Loctite® Marine Grade Anti-Seize

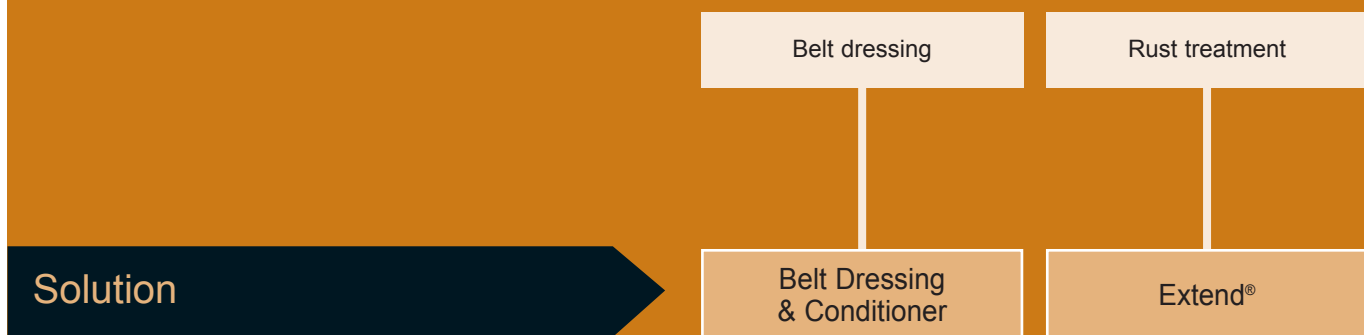
Formulated to protect assemblies exposed directly or indirectly to fresh and salt water, Marine Grade Anti-Seize works especially well in high humidity conditions. It has excellent lubricity, superior water wash-out water spray resistance, and prevents galvanic corrosion. ABS Approved.



Surface Protection and Rust Prevention

- Stabilize existing rust
- Guard against corrosion
- Prevent electro-chemical corrosion
- Increase belt friction

Surface Treatment and Rust Prevention



Description	Liquid spray	Rust Converter
Color	Colorless	Matte black
Temperature Range	Up to 200°F (93°C)	Up to 250°F (121°C)
Dry Time	N.A.	30 min.
Available Sizes	12 oz. aerosol	10.5 oz. aerosol, 1 qt., 1 gallon, 5 gallon

Additional Products

Name	Type
Color Guard® Primer	1 gallon
Color Guard® Thinner	1 gallon



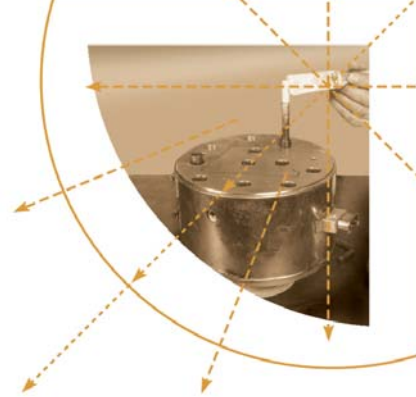
Loctite® Belt Dressing & Conditioner

Recommended to prevent slipping and increase friction for all types of belts. It extends belt life. Penetrates the cord fibers of "V" belts to restore pliability and flexibility. Eliminates squeaking and glazing.



Loctite® Extend® Rust Treatment

Converts existing rust into a stable base. Cured product acts as a primer ready for painting. Protects surfaces from corrosion. Use on metal pipes, valves, fittings, storage tanks, fences, guard rails, conveyors, construction and agricultural equipment. ABS Approved.



Corrosion protection			
General purpose			
Cathodic protection	Undercoating	Non Drying	Color Coding
Cold Galvanizing Compound	Rubberized Undercoating	Maxi-Coat	Color-Guard®
Zinc spray	Rubberized spray	Waxy film	Rubber coating
Grey	Black	Brown	Red, Yellow, Blue, Black
Up to 400°F (204°C)	Up to 200°F (93°C)	Up to 200°F (93°C)	Up to 200 °F (93°C)
15 min.	20 min.	N.A.	4 hrs.
15 oz. aerosol	16 oz. aerosol	12 oz. aerosol, 1 gallon can	11 oz. aerosol, 14.5 fl. oz. can, 1 gallon can



Loctite® Cold Galvanizing Compound

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



Loctite® Rubberized Undercoating

This heavy-duty undercoating seals, protects, and insulates. Rubberized for maximum durability.



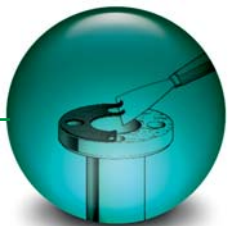
Loctite® Maxi-Coat

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



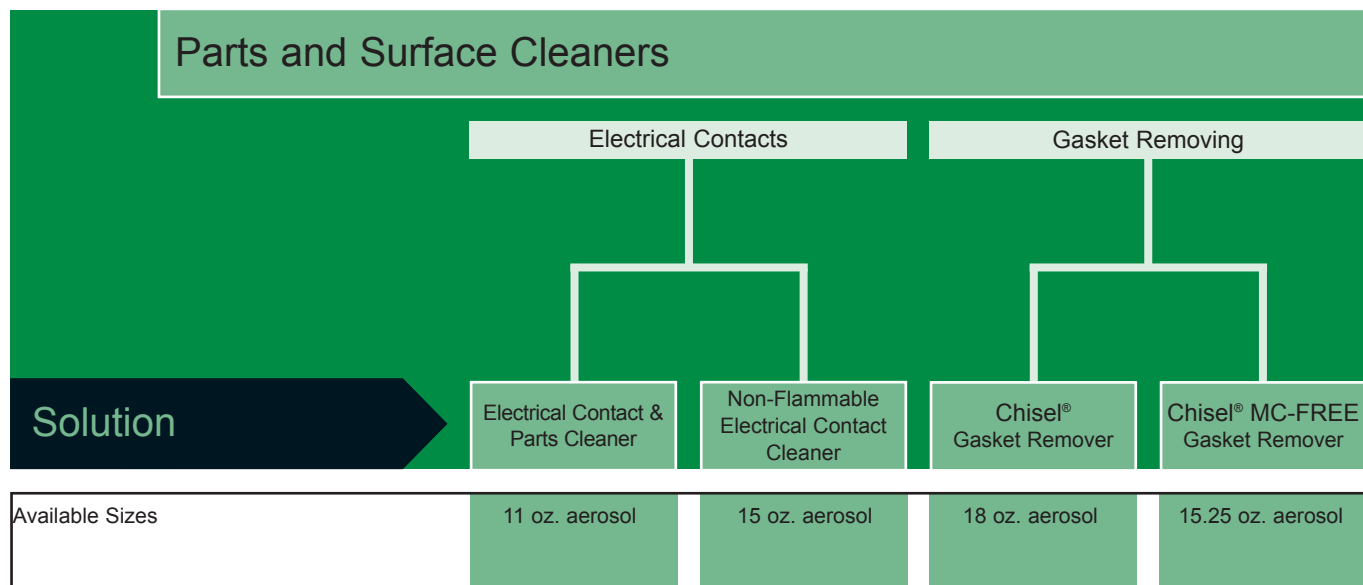
Loctite® Color Guard®

Tough Rubber Coating
Inhibits rust and corrosion. Seals, insulates, and identifies almost any material in minutes. Creates a non-slip gripping surface. Rubber coating won't crack or chip. Acid and alkali resistant. Dip, spray, or brush to apply. Suggested applications: tools, metal, electrical connections, masonry, wood, conveyors, glass, rope, fabric. Now in a toluene free formulation.

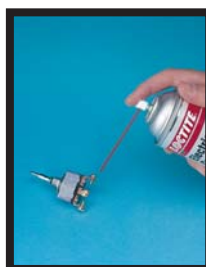


Parts and Surface Cleaning

- Clean and degrease work surfaces and parts



Additional Products	
Name	Size
Pro Strength Varnish Remover	12 oz. Aerosol
Multi-Purpose Glass Cleaner	18.75 oz. Aerosol
Paint Stripper	18 oz. Aerosol
Non-Chlorinated Parts Cleaner	14.75 oz. Aerosol



Loctite® Electrical Contact & Parts Cleaner

Fast-evaporating cleaner removes grease, oil, and other contaminants from electrical parts and mechanical equipment. Contains no CFCs or HCFCs and is safe on most plastics. Non-conductive and non-corrosive.



Loctite® Non-Flammable Electrical Contact Cleaner

Removes grease, oil, and other contaminants from electrical parts to prevent contact failure. Dries residue-free in seconds. Non-conductive, non-corrosive, non-flammable. Contains no CFCs or Class I ODCs. Contains HCFC-141 b. May attack some sensitive plastics.



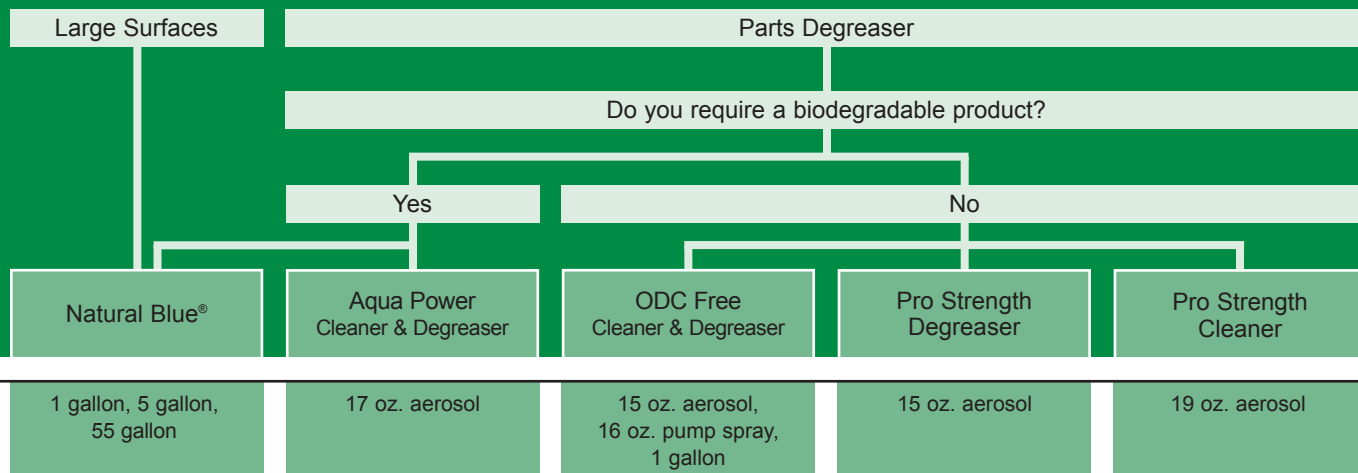
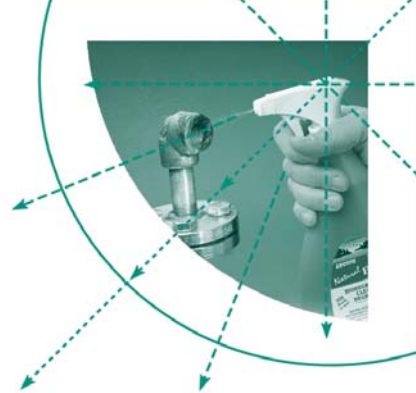
Loctite® Chisel® Gasket Remover

Removes gaskets from any type of assembly in 10 to 15 minutes. Prepares metal parts for new gaskets, eliminating scraping and sanding. Works on wood; non-corrosive on aluminum. Not for use with plastics, linoleum, or synthetic fibers.



Loctite® Chisel® MC-FREE Gasket Remover

Free of Methylene Chloride, Chisel® MC-FREE has a foaming action that lifts off gaskets from any type of assembly in minutes. Performs better than Methylene Chloride formulations on silicone gaskets and removes most spray paints from steel panels in less than 30 seconds. Suitable for wood and plaster. Not for use on plastics, linoleum, or synthetic fibers.



Loctite® Natural Blue® Cleaner & Degreaser

Biodegradable, all-purpose, industrial strength, concentrated cleaner and degreaser. Can be economically diluted with water. Natural Blue is formulated for wipe down, pressure spraying, and immersion cleaning processes at room temperature or heated. Non-flammable and non-toxic. Contains no ODCs. Available in pine scent or unscented formulas.



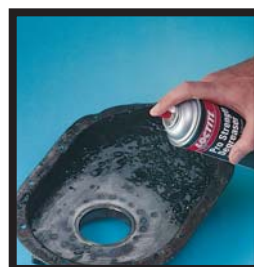
Loctite® Aqua Power™ Cleaner & Degreaser

Penetrates, dissolves, and removes dirt and oil. Fast drying and residue-free. Environmentally friendly product is biodegradable, has low toxicity, no ODCs, and is non-corrosive/non-caustic.



Loctite® ODC-Free Cleaner & Degreaser

A non-aqueous, hydrocarbon-based solvent designed for cleaning and degreasing surfaces to be bonded with adhesives, as well as for general purpose industrial cleaning. Safe on aluminum, rubber, and most plastics, and will not cause flash rusting on water-sensitive parts. Dries residue free. Contains no ozone-depleting compounds. (Formerly referenced as 7070).



Loctite® Pro Strength Degreaser

Quickly dissolves and removes grease, oil and dirt from iron, steel, aluminum, magnesium, copper, rubber, plastic, and concrete. Rinses off with water.



Loctite® Pro Strength Parts Cleaner

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

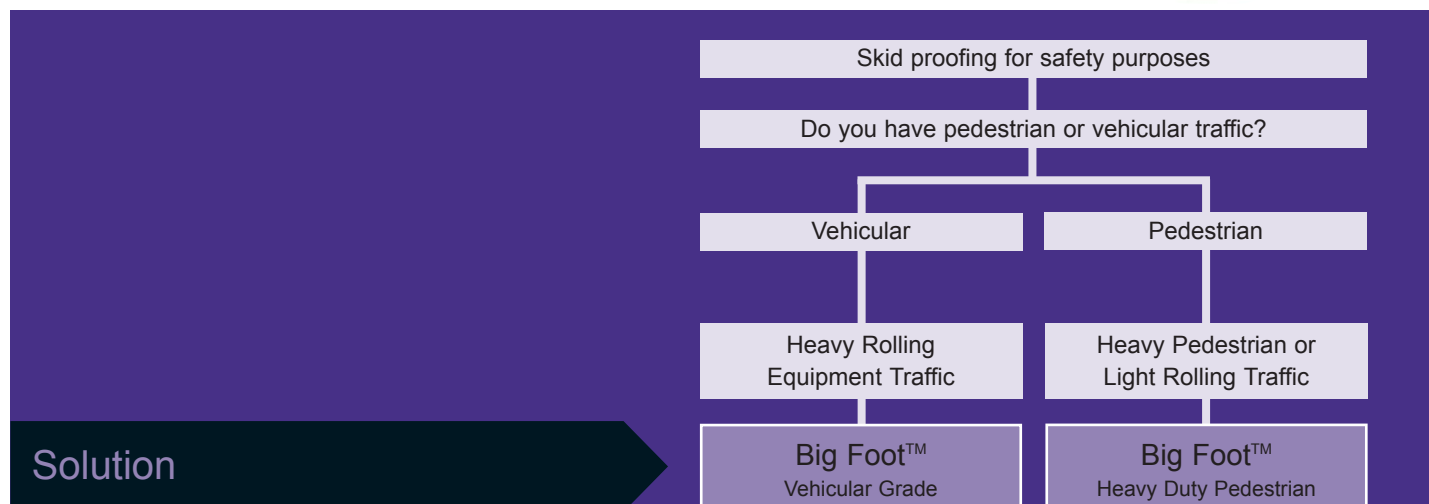


Anti-Slip Flooring

- Chemical resistance
- Designed to increase the Coefficient of Friction (COF)
- Exceeds OSHA COF recommendations

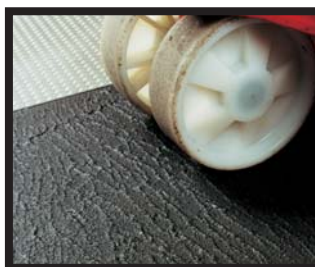


ANTI-SLIP FLOORING



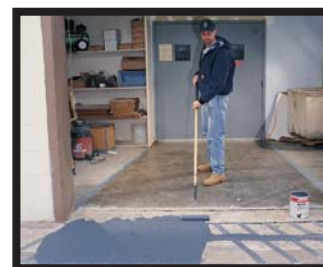
Color	Black, Grey, and Tile Red	Black and Grey
COF (Dry/Wet)	1.05/1.05	1.17/1.00
Coverage per Gallon (ft ² /meter ²)	40 ft ² (3.7m ²)	50 ft ² (4.7m ²)
Working Time	4 hrs.	N.A.
Drying Time (Light Pedestrian Traffic/Heavy Pedestrian Traffic)	12/72 hrs.	12/72 hrs.
Available Sizes	1 gallon, 5 gallon kits	1 gallon, 5 gallon kits

Additional Products	
Name	Used on or with
Big Foot™ Zero V.O.C	Most Agressive Profile and Odor Sensitive Areas
Big Foot™ Low Profile	Recreation or Barefoot Traffic
Big Foot™ Acrylic Pedestian Grade	Asphalt or Flexible Applications
Big Foot™ Metal Primer	Metal
Big Foot™ Acrylic Primer	Acrylic Pedestrian Grade
Big Foot™ Primer/Sealer	Porous Surfaces (ex. Concrete, wood, tile)



Loctite® Big Foot™ Vehicular Grade

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



Loctite® Big Foot™ Heavy Duty Pedestrian Grade

For areas with heavy pedestrian or light rolling traffic. Ideal for ramps, walkways, locker rooms, stairs, and assembly areas.

Notes

[illegible]This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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