



Loctite® brand Fixmaster® Filled and General Purpose Epoxies repair, rebuild, and restore damaged parts to quickly return equipment to service. Cured epoxies can be drilled, tapped, and machined – just like the original metal. These non-shrinking products are available in a range of performance characteristics for specific applications. Each epoxy is capable of bonding to metal, ceramic, wood, glass, and some plastics.

EPOXIES

Loctite® Fixmaster® 4 Minute Epoxy

Translucent, gel-like adhesive. Sets up in 4-6 minutes. Temperature resistant up to 160°F. Ideal for emergency repairs or where reduced fixturing time is desirable. Cartridge requires manual cartridge dispenser gun (Item number 983531).

Loctite® Fixmaster® Poxy Pak™

Fast Cure Epoxy

This fast cure, high strength, thick liquid reaches handling strength in 4-6 minutes. Bonds virtually any material to repair, fill, and seal holes, cracks, and worn surfaces.

Loctite® Fixmaster® Fast Cure Epoxy

Mixer Cups

Premeasured epoxy mixer cups. Bonds in 5-15 minutes. Excellent chemical resistance. Fills porosities and can be used to build up worn parts. Ideal for bonding glass, hard plastics, rubber, and metal.

Loctite® Fixmaster® General Purpose Epoxy

Mixer Cups

Premeasured epoxy mixer cups. One hour working time. Fills porosities and can be used to build up worn parts. Ideal for bonding glass, hard plastics, rubber, and metal.

Loctite® Fixmaster® High Performance Epoxy

Fiberglass reinforcement gives this adhesive outstanding tensile, shear strength, and shock resistance up to 180°F. Recommended for forming permanent, water-resistant bonds in production and maintenance applications. Cartridge requires manual cartridge dispenser gun.

Loctite® Fixmaster® Underwater Repair Epoxy

This putty-like material is ideal for plumbing, irrigation, and marine applications because it is unaffected by chlorinated or salt water. It is hand kneadable and fully cures in 1 hour.

Loctite® Fixmaster® Fast Set Steel Epoxy

Steel filled. Reaches functional cure in 10 minutes. Temperature resistant up to 200°F. Recommended for repairing pipes and other equipment that must be back in service in minutes. Cartridge requires manual cartridge dispenser gun.

Loctite® Fixmaster® Static Mixers

Mixing nozzles for use with Fixmaster® 50 ml epoxy cartridges. (Not for use with Rapid Rubber Repair).

Loctite® Fixmaster® Aluminum Liquid

Two-part, pourable epoxy system heavily reinforced with aluminum powder. For casting and repairing of aluminum parts, and for making molds and fixtures.

Loctite® Fixmaster® Aluminum Putty

Aluminum filled epoxy rebuilds and repairs aluminum equipment, forming a non-rusting finish.

Loctite® Fixmaster® Fast Set Steel Putty

Steel filled, non-sagging epoxy for filling and repairing damaged metal parts quickly. Functional cure in about 10 minutes.

Loctite® Fixmaster® Metal Magic Steel™

Steel epoxy in stick form. Cut off a section, knead, and apply to leaking pipes or damaged equipment. Cures in 10 minutes. Certified and approved for use with drinking water system components.

Loctite® Fixmaster® Stainless Steel Putty

Stainless steel filled. Forms a non-rusting, very hard, durable finish on damaged stainless steel surfaces.

Loctite® Fixmaster® Steel Liquid

Steel filled. Pourable and self-leveling. Epoxy is recommended for casting into hard-to-reach areas, anchoring and leveling, and forming molds and fixtures.

Loctite® Fixmaster® Steel Putty

Steel filled, non-sagging, two-part epoxy that cures to a metal-like finish for rebuilding or repairing metal parts.

Loctite® Fixmaster® Superior Metal

Ideal for renewing or protecting surfaces subject to corrosion, abrasion, and harsh environments. Ferro-silicon-filled epoxy has outstanding compressive strength, chemical resistance. Non-rusting.

Loctite® Fixmaster® Wear Resistant Putty

Ceramic fibers give this trowelable putty excellent wear and abrasion resistant properties. Cures to smooth, low friction surface. For surfaces exposed to wear, erosion, and cavitation. Non-rusting.

Loctite® Fixmaster® Wet Surface Repair Putty

Use this unique, trowelable epoxy to repair and rebuild wet, even underwater, surfaces. Bonds to wood, concrete, steel, iron, aluminum, brass, and some plastics.



LOCTITE® BRAND
FIXMASTER® EPOXY
PROPERTIES CHART

| PRODUCT | Item Number | Container | Color (cured) | Temperature Resistance, °F | Adhesive Tensile Shear, psi | Working Time, Minutes | Fixture Time † | Full Cure | Agency Approvals |
|---|-------------------------|--|---------------|----------------------------|-----------------------------|-----------------------|----------------|-----------|------------------|
| Fixmaster® 4 Minute Epoxy | 97434 | 50 ml cartridge | Translucent | 160 | 2,000 | 3-4 | 10 min. | 1 hour | - |
| Fixmaster® Poxy Pak™ | 81120 | 1 oz. syringe | Clear | 300 | 2,300 | 1 | 4-6 min. | 1 hour | ABS, CFIA |
| Fixmaster® Fast Cure Epoxy (Mixer Cups) | 21425 21426 | 10 - .12 fl. oz. cups 10 - 1 oz. cups | Grey | 180 | 2,000 | 5 | 10 min. | 12 hours | CFIA |
| Fixmaster® General Purpose Epoxy (Mixer Cups) | 21427 | 10 - .12 fl. oz. cups | Translucent | 180 | 2,000 | 60 | 1.5 hrs. | 24 hours | CFIA |
| Fixmaster® High Performance Epoxy | 99393 99394 99392 | 1 oz. syringe 50 ml cartridge 2 gallon kit | Tan | 180 | 3,800 | 30 | 8 hrs. | 24 hours | CFIA |
| Fixmaster® Underwater Repair Epoxy | 82093 | 4 oz. stick | White | 300 | 900 | 2 | 5 min. | 1 hour | CFIA |
| Fixmaster® Fast Set Steel Epoxy | 96604 | 50 ml cartridge | Grey | 200 | 2,600 | 3-4 | 10 min. | 1 hour | CFIA |
| Manual Cartridge Dispenser Gun | 983531 | Required for use with 50 ml Loctite® Fixmaster® Epoxies. | | | | | | | |
| Fixmaster® Static Mixers | 983441 | Packaged 10/bag - for mixing and dispensing epoxies in 50 ml containers. | | | | | | | |

Properties based on ultimate cure.
Epoxy properties based on mixing 20 g mass at 77°F.
† Time to reach handling strength.

LOCTITE® BRAND
FIXMASTER®
EPOXY BONDING
CHARACTERISTICS

| PRODUCT | Gap Filling | Fast Cure Time | Ferrous Metal Repair | Toughened Formulation | Shock Resistance | Water Resistance | Plastic Bonding | Rubber Bonding | Metal Bonding | Sandable Finish | Paintable Finish |
|---|-------------|----------------|----------------------|-----------------------|------------------|------------------|-----------------|----------------|---------------|-----------------|------------------|
| Fixmaster® 4 Minute Epoxy | ● | ● | ○ | | ○ | ○ | ○ | | ◐ | ● | ● |
| Fixmaster® Poxy Pak™ | | ● | | | | | ◐ | | ◐ | ● | ● |
| Fixmaster® Fast Cure Epoxy (Mixer Cups) | ◐ | ◐ | | | | | ○ | ○ | ◐ | ● | ○ |
| Fixmaster® General Purpose Epoxy (Mixer Cups) | ◐ | | | | | | ○ | ○ | ◐ | ● | ○ |
| Fixmaster® High Performance Epoxy | ● | | ○ | ● | ● | ● | ◐ | ○ | ● | ● | ● |
| Fixmaster® Underwater Repair Epoxy | ● | ● | | | ● | ● | ◐ | | ● | ● | ● |
| Fixmaster® Fast Set Steel Epoxy | ● | ● | ● | | ○ | ○ | | | ○ | ○ | ● |

● Preferred choice ◐ Good choice ○ Acceptable choice

LOCTITE® BRAND FIXMASTER®
METAL-FILLED EPOXIES
PROPERTIES CHART

| PRODUCT | Item Number | Container | Coverage, ft. ² @ 1/4" Thickness | Color | Maximum Operating Temperature, °F | Compressive Strength, psi † | Tensile Strength, psi † | Hardness (Shore D) | Working Time, Minutes | Functional Cure, Hours | Mix Ratio by Volume, r : h | Mix Ratio by Weight, r : h | Agency Approvals |
|-------------------------------------|-------------------------|--------------------------------------|--|-----------|-----------------------------------|-----------------------------|-------------------------|--------------------|-----------------------|------------------------|----------------------------|----------------------------|------------------|
| Fixmaster® Aluminum Liquid | 97453 | 1 lb. kit | 17 in. ³ | Alumin. | 200 | 17,000 | 6,000 | 85 | 20 | 6 | 5:1 | 9:1 | ABS, CFIA |
| Fixmaster® Aluminum Putty | 97463 | 1 lb. kit | 0.5 | Alumin. | 200 | 11,300 | 4,000 | 87 | 20 | 6 | 4:1 | 6.3:1 | ABS, CFIA |
| Fixmaster® Fast Set Steel Putty | 39917 | 1 lb. kit | 0.4 | Grey | 200 | 10,800 | 4,600 | 80 | 3 | 10 min. | 1:1 | 1.8:1 | ABS, CFIA |
| Fixmaster® Metal Magic Steel™ | 98853 | 4 oz. | 7 in. ² | Grey | 250 | 12,000 | 2,500 | 80 | 3 | 10 min. | N/A | N/A | - |
| Fixmaster® Stainless Steel Putty | 97443 | 1 lb. kit | 0.25 | Grey | 225 | 12,000 | 4,600 | 85 | 20 | 6 | 4:1 | 9:1 | ABS, CFIA |
| Fixmaster® Steel Liquid | 97483 97484 | 1 lb. kit 4 lb. kit | 13 in. ³ 52 in. ³ | Grey | 225 | 13,500 | 6,000 | 86 | 25 | 6 | 4:1 | 9.5:1 | ABS, CFIA |
| Fixmaster® Steel Putty | 99913 99914 99912 | 1 lb. kit 4 lb. kit 25 lb. kit | 0.3 1.2 7.5 | Grey | 225 | 11,100 | 4,900 | 85 | 30 | 6 | 2.5:1 | 6.25:1 | ABS, CFIA |
| Fixmaster® Superior Metal | 97473 | 1 lb. kit | 0.25 | Dark Grey | 250 | 18,000 | 5,500 | 90 | 20 | 6 | 4:1 | 7.25:1 | CFIA |
| Fixmaster® Wear Resistant Putty | 98742 98743 | 1 lb. kit 3 lb. kit | 0.36 1.1 | Grey | 225 | 11,600 | 4,900 | 89 | 30 | 6 | 2:1 | 2:1 | ABS, CFIA |
| Fixmaster® Wet Surface Repair Putty | 96583 | 1 lb. kit | 0.5 | Grey | 150 | 12,500 | 3,500 | 85 | 30 | 18 | 1:1 | 10:9 | ABS |

Properties are based on mixing one lb. mass at 77°F, 7 days cure.

† Ultimate cure.

LOCTITE® BRAND
FIXMASTER®
METAL-FILLED
EPOXY APPLICATION
SELECTION GUIDE

| PRODUCT | Emergency Metal Repairs | Corrosion Protection | Repairing Pipes, Tanks | Rebuilding Shafts, Keyways, Bearings | Repairing Threaded Parts | Restoring Tube Sheets | Pump Repair | Repairing Engine Blocks | Fixtures and Prototypes | Rebuilding Impellers, Valves | Repairing Aluminum Parts | Repairing Stainless Steel Parts | Forming Molds, Fixtures | Wet Surface Repairs |
|-------------------------------------|-------------------------|----------------------|------------------------|--------------------------------------|--------------------------|-----------------------|-------------|-------------------------|-------------------------|------------------------------|--------------------------|---------------------------------|-------------------------|---------------------|
| Fixmaster® Aluminum Liquid | | | | | | | | | ● | | ● | ◐ | ● | |
| Fixmaster® Aluminum Putty | | ◐ | | | | | | | | ● | ● | ◐ | | |
| Fixmaster® Fast Set Steel Putty | ● | | ● | | | | | ◐ | | | | | | |
| Fixmaster® Metal Magic Steel™ | ● | | ◐ | | | | | | | | | | | ◐ |
| Fixmaster® Stainless Steel Putty | | ◐ | | | | | | | | ● | ◐ | ● | | |
| Fixmaster® Steel Liquid | | | ● | | ● | | | | ◐ | | | | ● | |
| Fixmaster® Steel Putty | | | ● | | | | | ● | | ◐ | | | ● | |
| Fixmaster® Superior Metal | | ● | | ● | ● | ● | ● | ● | | ● | | | | |
| Fixmaster® Wear Resistant Putty | | ● | | ◐ | | ● | ● | ● | | ● | | | | |
| Fixmaster® Wet Surface Repair Putty | | ◐ | ◐ | | | | | | | | | | | ● |

● Preferred Choice ◐ Good Choice