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Product Description Sheet

Fixmaster[®] Stainless Steel Putty

Maintenance, Repair & Operations, May 1999

PRODUCT DESCRIPTION

LOCTITE[®] Fixmaster[®] Stainless Steel Putty is a stainless steel filled, two-part epoxy. Repairs stainless steel parts on applications where a stainless steel finish is desired under typical dry service temperatures of -29° to +107°C (-20° to +225°F). Once hardened it can be machined, drilled, tapped or filed just like the original metal.

Advantages:

- Resists rust and corrosion - for long lasting repairs.
- Rebuilds worn parts fast, reduces downtime.
- High stainless steel content - for durability.
- Superior adhesion - forms a solid bond to stainless steel, steel, cast iron, concrete, and clean and abraded bronze, copper, and aluminum.
- Non-sag putty - for application versatility. Conforms to unusual shapes.

TYPICAL APPLICATIONS

- Renewing stainless steel pumps
- Rebuilding stainless steel shafts
- Resurfacing stainless steel equipment
- Repairing stainless steel castings
- Making stainless steel molds

DIRECTIONS FOR USE

1. Clean and abrade application surface. Grit blast or grind for best adhesion.
2. Mix 4 parts resin to 1 part hardener by volume or 9 parts resin to 1 part hardener by weight, or mix entire kit by adding hardener contents to resin container.
3. Mix material vigorously until a uniform color is obtained. Be sure to mix along the sides and bottom.
4. Apply fully mixed material to prepared surface.

TECHNICAL TIPS FOR WORKING WITH EPOXIES

Working time and cure time depends on temperature and mass:

- The higher the temperature, the faster the cure.
- The larger the mass of material mixed, the faster the cure.

To speed the cure of epoxies at low temperatures:

- Store epoxy at room temperature.
- Pre-heat repair surface until warm to the touch.

To slow the cure of epoxies at high temperatures:

- Mix epoxy in small masses to prevent rapid curing.
- Cool resin/hardener component(s).

PROPERTIES OF UNCURED MIXED MATERIAL

Mixture	Typical Value
Appearance	Metallic Grey Paste
Mix Ratio (R:H) by Volume	4:1
by Weight	9:1
Coverage	36 in ² @ 1/4" thick / 1 lb. kit 232 cm ² @ 1/4" thick / 1 lb. kit

TYPICAL CURING PERFORMANCE

Curing Properties	Typical Value
(@ 25°C unless noted)	
Working Life, minutes	20
Cure Time, hours	6

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties	Typical Value
(@ 25°C unless noted)	
Compressive Strength, ASTM D695, psi (N/mm ²)	12,000 (82.7)
Shear Strength ASTM D1002, psi (N/mm ²)	1,300 (9.0)
.005" gap, acid etched aluminum	
Tensile Strength, ASTM D638, psi (N/mm ²)	4,600 (31.7)
Hardness ASTM D-2240, Shore D	85

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Ordering Information

Part Number	Container Size
97443	1 lb. kit

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Center.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

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NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.

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