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## Product Description Sheet

# Fixmaster® Rapid Rubber Repair Kit

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### PRODUCT DESCRIPTION

LOCTITE® Fixmaster® Rapid Rubber Repair Kit is designed to do just that – repair rubber, urethane, PVC and other parts quickly and durably. Unique for its exceptional handling, curing and performance properties, Rapid Rubber Repair has the added advantage of the newest and most convenient packaging available. This high performance urethane – in its easy to use kit – was developed to repair critical operating equipment faster, more reliably and with greater ease than before. Rapid Rubber Repair is an adhesive, sealant and repair compound all in one convenient, self-mixing system. Extremely tough and fast curing, it forms permanent bonds to rubber, urethane, PVC, metal, glass, masonry and plastics under typical dry service temperatures of  $-29^{\circ}$  to  $+82.2^{\circ}\text{C}$  ( $-20^{\circ}$  to  $+180^{\circ}\text{F}$ ). Its excellent flexibility and elongation properties make it suitable as a sealant in the most demanding environments. And, the system's no-measure, self-mixing features make it extremely convenient for fast, on-site repairs, especially to conveyor belts and other rubber parts exposed to weather and extreme wear.

#### Special Features:

- Fast curing – repaired equipment is back in mild service in two hours
- Outstanding tear, tensile and peel strength
- Excellent adhesion
- Innovative packaging speeds applications, eliminates waste
- Flexible – 360% elongation
- Tough – won't fracture under most stress
- Waterproof – excellent weatherability

#### TYPICAL APPLICATIONS

- Conveyor belt repairs
- Repair or rebuild rubber liners in mills, pumps, feeder bowls, hoppers, chutes and fans
- Repair cast urethane screens and liners
- Form tough, flexible, waterproof bonds to metal, rubber, and masonry parts

#### PROPERTIES OF UNCURED MIXED MATERIAL

Appearance	Typical Value
Mix Ratio (R:H) by Volume	Thick Black Liquid
Coverage, per cartridge	1:1
	568 cm <sup>3</sup> @ 6mm thick
	88 in <sup>2</sup> @ 1/4 in thick

#### TYPICAL CURING PERFORMANCE

(@ 25°C unless noted)

##### Curing Properties

	Typical Value
Cure Time, hours	2

#### TYPICAL PROPERTIES OF CURED MATERIAL

(@ 25°C unless noted)

##### Physical Properties

	Typical Value		
	<u>2 hrs.</u>	<u>4 hrs.</u>	<u>7 days</u>
Shear Strength ASTM D638, psi	800	900	1,300
.005" gap, acid etched aluminum (N/mm <sup>2</sup> )	5.5	6.2	9.0
Hardness ASTM D-2240, Shore D	68	73	82
Elongation, ASTM D638, %	400	375	360

### DIRECTIONS FOR USE

1. For maximum adhesion, abrade application surface then clean with Flex Cleaner Product No. 39636.
2. On natural rubber, SBR, and butadiene rubber surfaces, proper surface preparation requires the use of Etching Agent Product No. 99626. Allow the Etching Agent to dry for 30 minutes at 25°C (77°F) or 60 minutes at 10°C (50°F) prior to applying Rapid Rubber Repair.
3. Urethane, Nitrile, and PVC surfaces require cleaning and abrasion only. We do not recommend the use of the Etching Agent.
4. Metal surfaces require the surface to be ground or sandblasted to provide a profile. Apply Flex Metal Primer Product No. 98471. Allow Primer to dry for 30 minutes prior to applying Rapid Rubber Repair.
5. Remove nut and green insert from cartridge. Attach static mixer to end of cartridge and attach nut.
6. Install cartridge in applicator gun Product No. 39635.
7. Pull trigger and dual component urethane will mix properly as it is dispensed.
8. Work quickly as material will begin to cure in static mixer.
9. Work the urethane onto the substrate to allow maximum surface contact and adhesion.
10. It is not necessary to use all the urethane in the cartridge in one application. Leave the static mixer on the cartridge when application is complete. The mixer serves as a seal and should be discarded and replaced with a fresh mixer Product No. 39633 for the next application.

- **SPECIAL NOTE: Rapid Rubber Repair cures very quickly at high temperatures, reducing adequate working time and possibly causing premature curing. When applying Rapid Rubber Repair at temperatures above 25°C (77°F) or to a warm application surface, refrigerate material thoroughly before making the application. DO NOT REFRIGERATE CLEANER OR ETCHING AGENT!**

#### 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
96675	400 ml cartridge, 2 static mixers
96677	Multi-component kit contains: 400 ml cartridge, cleaner, etching agent, 2 static mixers, 2 spreaders, 2 brushes.
96676	150 ml coaxial cartridge, 2 static mixers (dispensed with standard caulking gun)
39635	Dispenser required for use with 400 ml Rapid Rubber Repair Urethane

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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### 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. 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

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. One or more United States or foreign patents or patent applications may cover this product.