



# LOCTITE<sup>®</sup> Fixmaster<sup>®</sup> Superior Performance Urethane

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## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> Fixmaster<sup>®</sup> Superior Performance Urethane provides the following product characteristics:

<b>Technology</b>	Polyester aliphatic urethane
<b>Appearance (Mixture)</b>	Light grey liquid, Dark grey liquid
<b>Cure</b>	Room temperature cure after mixing
<b>Components</b>	Two components - requires mixing
<b>Mix Ratio, by weight - Part A: Part B</b>	2.7 : 1
<b>Mix Ratio, by volume - Part A: Part B</b>	2.7 : 1
<b>Application</b>	Coating
<b>Specific Benefit</b>	<ul style="list-style-type: none"> <li>Available in light or dark grey</li> <li>Easily mixed with a drill and mixing blade</li> <li>80% solids</li> <li>Quick drying capability</li> </ul>

LOCTITE<sup>®</sup> Fixmaster<sup>®</sup> Superior Performance Urethane is a high solids (80%), two-part aliphatic polyurea floor coating with excellent UV stability and gloss retention. It has very quick drying capabilities; at 21°C (70F), it is hard enough to walk on in 5 to 6 hours, making it an ideal topcoat for applications where downtime is limited. LOCTITE<sup>®</sup> Fixmaster<sup>®</sup> Superior Performance Urethane can provide one-coat coverage over properly prepared concrete and masonry surfaces. Typical applications areas include warehouses, production facilities, utility rooms, equipment rooms and shipping and receiving areas.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

### Part A:

Density	kg/L	1.09 to 1.15
	(lbs/gal)	(9.1 to 9.55 <sup>LMS</sup> )

Viscosity, Brookfield, 21 °C, mPa·s (cP):  
Spindle 5, speed 50 rpm 110 to 200<sup>LMS</sup>

### Part B:

Density	kg/L	1.12 to 1.15
	(lbs/gal)	(9.35 to 9.6 <sup>LMS</sup> )

Viscosity, Brookfield, 21 °C, mPa·s (cP):  
Spindle 2, speed 50 rpm 550 to 800<sup>LMS</sup>

### Mixed:

Viscosity, Brookfield - RV, 21 °C, mPa·s (cP), 180 to 300<sup>LMS</sup>  
Spindle 4, speed 50 rpm

Flash Point - See MSDS

## TYPICAL CURING PERFORMANCE

### Curing Properties

Gel Time @ 21 °C, minutes 14 to 24<sup>LMS</sup>  
Cure Time @ 21 °C, hours 8 to 14<sup>LMS</sup>

### Curing Times Property

	4°C(40F)	24°C(75F)
Pot Life	30 min	20 min
Working time	20 min	15 min
Dry to Touch	4.5 hrs	2 hrs
Hard Foot Traffic	18 hrs	6 hrs

## TYPICAL PROPERTIES OF CURED MATERIAL

Cured @ 25 °C except where noted

### Physical Properties:

Tensile Strength, ISO 527-2	N/mm <sup>2</sup> 2.8
	(psi) (400)
Elongation, ISO 527-2, %	85
Shore Hardness, ISO 868, Durometer A	90

### Miscellaneous:

Bond Strength to Concrete	* N/mm <sup>2</sup> 2.8
	* (psi) (400)
	*substrate failure
Taber Wear Resistance, Weight Lost, mg: Wheels cs17, 1 Kg load, 1,000 cycles	80
60 Degree Gloss	80

## 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).

Directions for use:



**Surface Preparation:**

- New concrete must be firm, clean, and free of any adverse moisture conditions. The surface must have an appropriate surface profile and be well-cured (30 days at temperatures over 21°C). Shot blasting, mechanical scarification, chemical means or sandblasting should be used to prepare the substrate.
- Older, uncoated concrete is prepared in the same manner as new concrete. Before preparation, the concrete must be thoroughly cleaned with a strong detergent cleaner to remove all grease and oils. All loose concrete must be removed. Holes and cracks should be filled with LOCTITE® Fixmaster® Crack Filler. Surface deterioration and rough surfaces should be treated with LOCTITE® Fixmaster® Epoxy Resurfacer.
- Previously painted surfaces should be completely stripped of peeling or degraded paint.
- Surfaces should be primed using Fixmaster® Water Based Epoxy Primer/Sealer.

**Mixing:**

- Mix Part A for 30-60 seconds at slow speed (<750 rpm) with a low speed Jiffy® style blade mixer, then add Part B and mix for another 30-60 seconds, until uniform in color
- High speed spiral paint mixers are not recommended as they introduce air bubbles into the product, which can cause pinholes in material when applied
- **Note:** For 18.9 liter (5 gallon) pails, a 18.9 liter (5 gallon) Jiffy® mixer is recommended

**Application:**

- Immediately after mixing, pour out onto floor in a ribbon fashion, spread with a rubber squeegee to a layer thickness of 250 microns (10mil), then back-roll with a fine nap adhesive roller.
- Apply when ambient temperatures are above 4°C and at least 5 degrees above the dew point.
- Do not apply over damp substrate.

**Coverage rate**

To achieve a 250 micron (10 mil) thickness, the coverage rate will be 4 m<sup>2</sup> / l (160 ft<sup>2</sup> / gal), excluding overthicknesses, etc

**Loctite Material Specification<sup>LMS</sup>**

LMS dated October 14, 2011 (Resin) and LMS dated October 14, 2011 (Activator). Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Loctite Quality.

**Storage**

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required,

please contact your local Technical Service Center or Customer Service Representative.

**Conversions**

(°C x 1.8) + 32 = °F  
 kV/mm x 25.4 = V/mil  
 mm / 25.4 = inches  
 µm / 25.4 = mil  
 N x 0.225 = lb  
 N/mm x 5.71 = lb/in  
 N/mm<sup>2</sup> x 145 = psi  
 MPa x 145 = psi  
 N·m x 8.851 = lb·in  
 N·m x 0.738 = lb·ft  
 N·mm x 0.142 = oz·in  
 mPa·s = cP

**Note**

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Reference 0.0