

LOCTITE® Fixmaster® Water Based Epoxy Primer/Sealer

November 2011

PRODUCT DESCRIPTION

LOCTITE® Fixmaster® Water Based Epoxy Primer/Sealer provides the following product characteristics:

Technology	Epoxy
Appearance (Comp. A)	Smooth ^{LMS}
Appearance (Comp. B)	Amber liquid
Cure	Room temperature cure after mixing
Components	Two components - requires mixing
Application	Flooring
Specific Benefit	• Low viscosity for maximum penetration • Effective barrier coat over many existing finishes (must perform patch test) • Easy to use brush, roll or spray application • Convenient recoat properties • Excellent for use over acid-etched concrete • Cures to a clear color

LOCTITE® Fixmaster® Water Based Epoxy Primer/Sealer is a thin film, two-component clear water-based primer for porous surfaces like concrete or wood. It is not for use on non-porous materials like metal. LOCTITE® Fixmaster® Water Based Epoxy Primer/Sealer is designed for use with most high performance floor coatings under dry service temperatures of -23 to 82°C (-10 to 180°F) after cure. It can be used with both epoxy and urethane floor coverings. Typical applications areas include warehouses, production facilities, utility rooms and shipping and receiving areas.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A:

pH 8 to 9^{LMS}

Part B:

Weight per volume kg/L 1.0 to 1.05
(lbs/gal) (8.35 to 8.75^{LMS})

Mixed:

Weight per volume kg/L 1.01 to 1.03
(lbs/gal) (8.4 to 8.6^{LMS})

Pot life @ 21 °C, hours 2

Recoat Time @ 21 °C, hours 6 to 48

Dry time, hours 1 to 2^{LMS}

Coverage 6.14 m² /l
(250^{LMS} sq ft/gal)

Viscosity @ 25°C, mPa·s (cP) 50 to 100^{LMS}

VOC, ASTM D 3960, g/l 0^{LMS}

Solids Content, % 40

Flash Point - See MSDS

TYPICAL CURING PERFORMANCE

Curing Properties

Cure Time @ 25 °C, minutes 10

Working life, minutes 3

TYPICAL PROPERTIES OF CURED MATERIAL

Cured @ 25 °C except where noted

Lap Shear Strength, ISO 4587:

Aluminum (acid etched), 0.05 mm gap N/mm² 13.8
(psi) (2,000)

Compressive Shear Strength, ISO 10123:

Steel N/mm² 74.5
(psi) (10,800)

Tensile Strength, ISO 6922:

Steel N/mm² 31.7
(psi) (4,600)

Physical Properties:

Shore Hardness, ISO 868, Durometer D 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:

1. 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.
- Wood surface must be clean and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent.

2. Mixing:

- Thoroughly mix contents of can with an electric or air mixer using a Jiffy® mixing blade or equal. After premixing both components, pour contents into an appropriate sized mixing container and mix for 2 to 3 minutes until thoroughly blended.
- **Note:** For 18.9 liter (5 gallon) pails, a 18.9 liter (5 gallon) Jiffy® mixer is recommended

3. Application Method:

- Apply material using a high quality 3/8"-1/2" bristle/nap roller cover, being careful to work into the surface.
- Apply when surface and ambient temperatures are above 10°C and the material temperature is above 15°C.
- The primer/sealer can be top coated in as little as 6 hours at 21°C and must be tack free before topcoating.
- If pinholes or porosities are evident after initial cure of the primer, repriming may be necessary; especially on very porous concrete.

Loctite Material Specification^{LMS}

LMS dated June 27, 2011 (Resin) and LMS dated June 27, 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel 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 Henkel 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. This product may be covered by one or more United States or foreign patents or patent applications.

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Reference 0.0