

## UL PM 4153

### *Polyamine Epoxy Primer/Sealer*

#### **DESCRIPTION**

**UL PM 4153** is a two component, high solids, liquid applied primer. This primer has been developed for use on carbon steel, non-ferrous metal, fiberglass, PVC pipe, as well as concrete and masonry.

#### **FEATURES**

100% Solids / Low Viscosity Epoxy Coating / Surface Tolerant Primer Sealer / Provides Limited Chemical Resistance / Versatile Application: Spray, Roll or Brush

#### **TYPICAL USES**

Mining and Milling Industry / Petrochemical Plants / Pulp and Paper Industry / Storage Tanks / Steel Structures and Bridges / Industrial Flooring / Food Processing Facilities / Concrete Floors and Decks / Power Generating Plants / Water and Wastewater Treatment Plants / Chemical and Pharmaceutical Industries.

#### **TYPICAL APPLICATIONS**

To be used as a primer over Carbon Steel, Galvanized Steel, Aluminum, Existing Coating, and Concrete. It is to be top coated with Ultimate Lining's plural component spray systems such as UL 2161H, UL 6613, UL MPL or polyaspartic topcoats such as Ultimate Linings-Staingard 7111 or 7183, as well as with moisture cured urethane systems, such as UL glaze 200, Ultimate Linings-Staingard 2221, or Diamond glaze 2000.

#### **COLORS**

Grey with a medium sheen gloss. Custom colors are also available with a minimum order of 100 gallons (379 liters). See color chart for special provisions.

#### **PACKAGING**

3 Gallon Kit: Two 1 gallon cans of Side-A and One 1 gallon can of Side-B. 15 Gallon Kit: Two 5 gallon pails of Side-A and One 5 gallon pail of Side-B.

#### **MIXING**

The volume mixing ratio is 2 parts Side-A to 1 part Side-B. Do not estimate. UL PM 4153 Side-A and Side-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. The combined components should be thoroughly mixed using a mechanical mixer at slow speed.

#### **APPLICATION DATA**

Apply over prepared or suitably prepared carbon steel, galvanized steel, concrete or aluminum. Surface Preparation Method: Carbon Steel: SSSP-SP-2, 3, 6 or SP-12 (WJ-3). Aluminum: Alondine, Alumiprep or light abrasive blast. Galvanized Steel: Galvaprep or light abrasive blast. Concrete: SSSP-SP-7 Brush-Off Blast.

#### **SURFACE PREPARATION**

In general, coating performance is directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants. **Carbon Steel:** Use SSSP Guidelines for surface preparation acceptable systems include SP-6 (Commercial Blast), SP-3 (Power Tool/Hand Tool).

**Aluminum:** Remove oil, grease, dirt and other contaminants with neutral detergent and treat with Alondine® 1200 or equal. Light brush blasting is also acceptable.

**Galvanized Steel:** Remove all contaminants such as oil, grease, dirt or residues with a neutral detergent and treat with Galvaprep.

**Existing Coatings:** Use SSSP guidelines for re-coating methods, recommended systems are SP-7 Abrasive blast or SP-3 Power Tool cleaning. Pressurized water at 2000 psi may also be used in conjunction with abrasive blasting or Power tool cleaning. A test area should be accomplished before top coating.

**Concrete:** Pressure wash (2000-3000 psi) with clean fresh water in conjunction with biodegradable cleanser if necessary to remove all contaminants. Surface shall be dry and free of all oils, wax or any loose sealers or coatings. Use SSSP guidelines for abrading the surface such as SP-7 Brush-off blast cleaning. See Specification Guide for further detail.

### APPLICATION

Application temperature for UL PM 4153 should be between 60-90°F. Do not apply product unless temperature is at least 5° above the dew point. Re-coat schedule is 2-36 hours dependent upon environment. See Specification Guide for re-coating guidelines and additional information. Airless Spray: Use Graco 28:1 pump or higher, Binks "Airless" spray gun with Reversa-Clean 0.017-0.019 spray tips with a 1" fluid line, adjust pump pressure to the lowest possible setting that provides proper atomization. Equipment of equal performance is acceptable. Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted airless or high volume, low pressure systems as supplied by Binks, Graco, Nordson, Devilbiss or equal may be used. See Specification Guide for additional information. Brush: Use mohair or natural bristle brush with feather edge. Roller: Use phenolic core, short nap sheepskin or equal natural roller covers.

### EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

### STORAGE

**UL PM 4153** has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers.

### LIMITATIONS

The uncured materials used in UL PM 4153 are very sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extends the cure time and the use of accelerators may be necessary. All surfaces to receive UL PM 4153 must meet all applicable building and safety codes in the prescribed city, county, state, or other jurisdiction. The substrate must be structurally sound and sloped for proper drainage. No liability is assumed by Ultimate Linings Products for substrate defects, any improper surface preparation, and/or improper application.

### WARNING

This product contains Epoxy Resin and Curatives.

TECHNICAL DATA	
Coverage Rate .....	1 gal/300 sq. ft. 0.135 l/m <sup>2</sup>
Pot Life, 75°F (24°C) @ 50% R.H. ....	20-30 min.
Dry Film Thickness per Coat .....	5 ± 1 mils 127 ± 25 microns
Hardness, ASTM D-2240 .....	70 ± 5 Shore D
Specific Gravity,	
Part-A .....	1.09
Part-B .....	1.07
Viscosity, at 75°F (24°C),	
Part-A & B combined .....	600 ± 50 cps
Volatile Organic Compounds,	
ASTM D-2369-81 .....	0.75 lbs/gal 90 gm/liter
Sag Resistance @ 75°F .....	5-6 mil

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Ultimate Linings Products representative or visit our website for recently updated instructions and data.

#### Limited Warranty

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