**Product Description**

Polyeuro® MPL 11 FR is a Class 1 fire-rated, two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

**FEATURES**

- Meets ASTM E-84 Class 1 Fire Test Criteria
- Seamless
- High Build
- Tough and Elastomeric
- Quick Drying
- Chemical Resistant
- Low Temperature Flexibility
- Abrasion and Impact Resistant

**TYPICAL USES**

- Truck Bed Surfaces
- Utility Vehicles
- Cargo Liners
- Boat Linings
- Waterproof Decking
- Containment Areas
- Cargo Holds
- Horse Trailers
- Wood Pedestrian Walkways
- Encapsulation of Fiberglass Bodies and Polystyrene Foams

**PACKAGING**

10-gallon kit

One 5 gallon pail of Side-A (Isocyanate side), one 5 gallon pail (net fill 4.5 gal) of Side-B (Resin side) and one 1 gallon can (net fill 0.5 gal) of Side-C (Resin side).

100-gallon kit

One 50 gallon drum of Side-A (Isocyanate side), one 50 gallon drum (net fill 45 gal) of Side-B (Resin side) and one 5 gallon pail of Side-C (Resin side).

**Colors**

Clear/Neutral. Custom colors are available upon request. Color Packs, when used, must be added to Part-B. Due to its aromatic composition, Polyeuro® MPL 11 FR will tend to yellow or darken in color and will become flat after exposure to UV light. Polyeuro® MPL 11 FR may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

**Mixing**

Polyeuro® MPL 11 FR may not be diluted under any circumstances. Thoroughly mix Polyeuro® MPL 11 FR Part-A and Part-B with air driven power equipment.

Mix Part-C into Part-B container until a homogeneous mix-ture and color is obtained. For a 10 gallon kit, mix for 5 min-utes. For a 100 gallon kit, mix for 20 minutes.

**Coverage**

Polyeuro® MPL 11 FR may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

**Surface Preparation**

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Polycoat recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact Polycoat.

**NEW AND OLD CONCRETE:**

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Polycoat Products PC-260 or a mixture of Polyprime 21 and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.
CONCRETE SURFACE PREPARATION REFERENCE:
ASTM D4258 - Standard practice for cleaning concrete
ASTM D4259 - Standard practice for abrading concrete
ASTM D4260 - Standard practice for etching concrete
F1869 - Standard test method for measuring moisture vapor emission rate of concrete
ICRI 03732 - Concrete surface preparation

WOOD:
All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Polycote Products PC-260 with sand. Upon full cure of the repair agent, prime the entire surface intended for coating.

STEEL (ATMOSPHERIC AND IMMERSION EXPOSURE):
Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime with recommended primer and spray Polyeuro® MPL 11 FR on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

GALVANIZED SURFACES:
Clean and degrease any contaminated surfaces before priming. Do not blast galvanized surfaces with an abrasive grit. An adhesion test is recommended prior to starting the project. Primer may be needed, consult Polycoat.

FIBERGLASS REINFORCED PLASTIC:
The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

TEXTILES, CANVAS, FABRICS:
Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

NEW AND OLD CAST IRON:
Blast with a steel grit and degrease before priming. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

MIXING
Polyeuro® MPL 11 FR may not be diluted under any circumstances. Thoroughly mix Polyeuro® MPL 11 Part-A and Part-B with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION
Both Side-A and Side-B materials should be preconditioned to 90-100°F before application.

Both Side-A and Side-B materials should be continuously agitated before and during application. Agitate at least one hour prior to application using heavy duty drum agitator.

Both Side-A and Side-B lines must have filters removed. Use a round pattern disc for spraying. Orifice diameter must be 0.042” or greater.

Recommended surface temperature must be at least 5°F above the dew point.

Disclaimer: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycote Products makes no claim that these tests or any other tests, accurately represent all environments. © 2018 Polycote Products. All rights reserved.