

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

TYPICALUSES

Truck Bed Surfaces	✤Cargo Holds
✤Utility Vehicles	♦Horse Trailers
◆Cargo liners	Industrial Floorings
◆Boat Linings	✤Walkways
Waterproof Decking	Containment Areas
Encapsulation of Fiberglass Bodies and Polystyrene Foams	

COLOR

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.

PACKAGING

10 gallon kit: 5 gallons Side-A (Isocyanate side) and 5 gallons Side-B (Resin side).

100 gallon kit: 50 gallons Side-A (Isocyanate side) and 50 gallonsSide-B (Resin side).

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

POLYEURO® MPL 11 FR

Fire Retardant Two Component Modified Polyurea Protective Coating

TECHNICAL DATA	
Mix Ratio, by volume	1A:1B
Pot Life @ 160°F (71°C)	3 - 6 seconds
Tack Free Time (150 mils thick)	
Recoat Time	0-12 hours
Viscosity @ 150-160°F (65.5-71°C), Brookfield	:
Side-A	150 ± 50 cps
Side-B	200 ± 20 cps
Density (Side-A & B Combined)	
Flash Point	
Hardness, ASTM D-2240*	50 ± 5 Shore D
Tensile, ASTM D-412*	1600 ± 200 psi
Elongation, ASTM D-412*	
Tear, ASTM D-624*	
Service Temperature - Dry	-20°F to 250°F
Service Temperature - Wet	
-	

(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

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 ASTM 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 Polycoat

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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 and shoot Polyeuro® on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

Aluminum:

Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

Brass and Copper:

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

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.

Fiberglass Reinforced Plastic:

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

Plastic Foams:

Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

Textiles, Canvas, Fabrics:

Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

Stainless Steel:

Stainless steel may be grit blasted and degreased before priming. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

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.

All Other Surfaces:

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 82 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 becontinuously 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.

Polyeuro[®] MPL 11 FR should be applied using a plural component, heated, high pressure 1:1 sprav mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used.

Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

Polyeuro® MPL 11 FR should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

STORAGE

Polyeuro[®] MPL 11 FR has a shelf life of six (6) months from date of manufacture, in factory-sealed containers.

Part-A and Part-B drums are recommended to be stored above 60°F.

Avoid freezing temperatures.

Store drums on wooden pallets to avoid direct contact with the ground.

If stored for a long period of time, rotate Part-A and Part-B drums regularly.

LIMITATIONS

Do not open until ready to use.

Both Part-A and Part-B containers must be fitted with a desiccant device during use.

WARNING

This product contains Isocyanates and Curative Material.

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 Polycoat Products representative or visit our website for current technical data and instructions.

LIMITED WARRANTY

LIMITED WARRANTY Polycocal Products warrants is products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products warrants is products to be free of manufacturing defects and that they will meet Polycoat Products and and water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that porduct. Polycoat Products shall not be defective. There are no other warranties by Polycoat Products shall not be responsibility shall be to replace that porduct. Polycoat Products shall not be defective. There are no other warranties by Polycoat Products shall not be responsibile for use of this product. Polycoat Products shall not be reach-natability or thises for a particular purpose in connection with this product. Polycoat Products shall not be reach-natability or thouse of this product. Polycoat Products shall not be reach-natability or to sole defective. There are no other warranties by Polyciate With product to a mannae, active of nany warranty or quaranties be indicated or to infinge on any claimed breach of any warranty or quaranties is being issued with respect to appearance. Color, fading, chaling, stating, st

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