



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLYEURO® MPL 80 Two Component Modified Polyurea Protective Coating

DESCRIPTION

Polyeuro® MPL 80 is a two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

FEATURES

- Seamless
- Tough and Elastomeric
- Chemical Resistance
- Low Temperature Flexibility
- Abrasion and Impact Resistant
- High Build
- Quick Drying
- Low Shrinkage

TYPICAL USES

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

COLOR

Neutral, Grey, Black. Custom colors are available upon request.

PACKAGING A Side: ISO B Side: Resin
10 gallon kit: 5 gallons (48.5 lbs. net) Part-A and 5 gallons (43.6 lbs. net) Part-B.

100 gallon kit: 50 gallons (486 lbs. net) Part-A and 50 gallons (436 lbs. net) Part-B (Grey Color or Black).

MIXING

Polyeuro® MPL 80 may not be diluted under any circumstances. Thoroughly mix Polyeuro® MPL 80 Side-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

Side-B base material must be thoroughly agitated until a homogenous mixture is obtained. Do not allow air to be incorporated into the product. Total suspension must be achieved. Side-A Isocyanate requires no mixing.

COVERAGE

Polyeuro® MPL 80 may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 1600 sq. ft. at 1 mil.

SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants.

TECHNICAL DATA	
Mix Ratio, by volume	1A:1B
Pot Life	3-5 seconds
Tack Free Time	20-40 seconds
Recoat Time	0-12 hours
Viscosity at 150-160°F (65.5-71°C), Brookfield,	
Part-A	120 ± 20 cps
Part-B	60 ± 20 cps
Density (Side-A & B Combined)	9.0 lbs/gal
Flash Point	>200°F
Hardness, ASTM D-2240	80 ± 5 Shore A
Tensile, ASTM 412-C	2000 ± 300 psi
Elongation, ASTM 412-C	300 ± 25%
Tear, ASTM 624-C	300 ± 40 pli
Service Temperature	-20°F to 250°F

Pick-Up Truck: Sanding and scuffing of the original paint finish is required to obtain a permanent bond of the spray-on liner to the pick-up truck bed.

After the vehicle is masked with paper and the surface has been thoroughly cleaned, sand the surface using 40 grit sanding discs on an autobody disc arbor.

In areas which cannot be accessed by power tools, surface preparation can be completed by hand using 80 or 100 grit sandpaper or a coarse scuffing pad such as Scotchbrite.

Take care that all edges at tape lines are well scuffed and sanded.

After sanding and scuffing the surface must be clean and dust free.

Concrete: Remove all contaminants such as oil, grease, dirt, form oil residue, wax, laitance or any other chemical product prior to proceeding with surface preparation. The surface should be free of voids, pot holes or bug holes, loose or weak concrete and the necessary surface profile must be achieved and have open textured surface by blast cleaning or equivalent mechanical means as listed below to ensure proper adhesion and good surface appearance.

Abrasive blast using brush blast technique or better to achieve a desired surface texture (CSP 4-5 per ICRI Guidelines).

Vacuum to remove dust, etc., prior to application of primer.

Use fiberglass (C-Veil Glass) or a geotextile cloth to bridge cracks over the primed surface.

Primer is always recommended to take care of voids, pot holes or bug holes etc.

APPLICATION

Both Side-A and Side-B materials should be preconditioned at 75-80°F before application.

Polyeuro® MPL 80 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Hydra Cat, Gusmer or other equivalent machine may be used.

Both Side-A and Side-B materials should be sprayed at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

STORAGE

Polyeuro® MPL 80 has a shelf life of twelve (12) months from date of manufacture in original, factory sealed containers.

Avoid exposure to freezing temperatures for an extended period of time.

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

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

LIMITATIONS

Due to its aromatic composition, Polyeuro® MPL 80 will tend to yellow or darken in color after exposure to UV light. Polyeuro® MPL 80 may be topcoated with an aliphatic polyurethane coating, such as Polycoat's Polyglaze 100, AL-50, or Staingard 7000 polyaspartic, for a color-fast glossy finish.

Do not open until ready to use.

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

WARNING

This product contains isocyanate 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 .

SAFETY PRECAUTIONS

This product is for industrial use only by professional applicators and is not intended or suitable for use in or around a household or residential property. Keep away from children and household items. This material contains polyisocyanates. Vapors and spray mist are harmful. Improper handling and use may be hazardous. At all times safety precautions must be strictly followed during storage, handling and application.

WARNING

Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors. All personnel entering the application area, including the applicator must wear properly fitted, NIOSH/MSHA approved, fresh air positive pressure air respirators with a full face piece or an air supplied hood.

Keep the material away from sparks, flash and open flames. Containers, even those that have been emptied, may contain dangerous and explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

LIMITED WARRANTY

Polycoat Products warrants its 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 licensed applicator according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

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