

Two-Component Modified Polyurea Protective Coating

DESCRIPTION

Polyeuro MPL 11 is a two-component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fibre glass and wood surfaces.

FEATURES

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

TYPICAL USES

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

COLOUR

Natural or black.

PACKAGING

10-gallon kit:
Consists of 5 gallons Part A and 5 gallons Part B.

107-gallon kit:
Consists of 53.5 gallons Part A and 53.5 gallons Part B.

MIXING

Polyeuro MPL 11 may not be diluted under any circumstances. Thoroughly mix Polyeuro MPL 11 Part B Base material with air driven power equipment until a homogenous mixture and colour is obtained. Both Part A and Part B material should be at the temperature range of 54 - 60°C before application.

Part 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. Part A Isocyanate requires no mixing.

COVERAGE

Polyeuro MPL 11 may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 148 m² at 250 microns DFT.

SURFACE PREPARATION

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

TECHNICAL DATA

(Based on compressed film)

Flash Point	>93°C
Density	8.9 lb/gal
Viscosity at 24°C Brookfield	
Part A	700±200 cps
Part B	300±100 cps
Spray Temperature	54-60°C
Mix Ratio by volume	1A:1B
Pot Life, 57°C @ 50% RH	2.5 seconds
Hardness, ASTM D 2240	45±5 Shore D
Tack Free Time, 57°C	30-50 seconds
Tensile, ASTM 412-C	2900±300 psi
Elongation, ASTM 412-C	250±20%
Tear, ASTM 624-C	375±40 pli
Abrasion Resistance	
H-18, 1000 Cycles, 1 kg	100±25 mg

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 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.

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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 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 as listed below to ensure proper adhesion and good surface appearance.

Abrasive blast using brush blast technique or better to achieve 375 - 750 micron anchor profile.

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

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

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

APPLICATION

Plural component, heated, high pressure 1:1 spray mixing equipment such as Glas-Craft's MH II Probler or equivalent.

Both Part A and Part B materials should be sprayed at temperatures above 54°C. Adequate pressure and temperature should be maintained at all times.

STORAGE

Polyeuro MPL 11 has a shelf life of six months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Due to its aromatic composition, Polyeuro MPL11 will tend to yellow or darken in colour after exposure to UV light. Polyeuro MPL11 may be topcoated with MPL Topcoat an aliphatic polyurethane coating for a colour-fast glossy finish.

Do not open until ready to use.

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 Part A drums regularly.

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

WARNING

This product contains isocyanate and curative material

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