



Product Description

Polyeuro® 5602 is a fast setting, rapid curing, 100% solids, flexible, aromatic, two component spray polyurea that can be applied to suitably prepared concrete and metal surfaces. Its extremely fast gel time makes it suitable for applications down to -20°F. It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures. Polyeuro® 5602 offers a tack free time of less than thirty seconds and exhibits 300% elongation upon curing with 60 Shore D hardness.

FEATURES

- » Excellent Thermal Stability
- » No Toxic Vapors
- » Meets USDA Criteria
- » Seamless
- » Zero VOC (100% Solids)
- » Odorless
- » Low Permeance Rate
- » Non-Reactive
- » Low Temperature Flexibility
- » Good Chemical Resistance
- » Coats Carbon or Mild Steel Metals without Primer on Properly Prepared Surfaces
- » Installed With or Without Reinforcement in Transitional Areas

TYPICAL USES

- » Power Plants
- » Refineries
- » Structural Steel
- » Fertilizer Plants
- » Warehouse Floors
- » Mining Operations
- » Cold Storage Facilities
- » Marine Environments
- » Paper and Pulp Mills
- » Food Processing Plants
- » Secondary Containment
- » Walkways and Balconies
- » Water and Wastewater Treatment Plants
- » Industrial and Manufacturing Facilities
- » Marine Environments
- » Dump Trucks

PACKAGING

10-gallon kit	5 gallons (18.9 liters) Side-A (Isocyanate side) and 5 gallons (18.9 liters) Side-B (Resin side)
100-gallon kit	50 gallons (189 liters) Side-A (Isocyanate side) and 50 gallons (189 liters) Side-B (Resin side)

Colors

Clear/Neutral or Black. Custom colors are available upon request. Color Packs, when used, must be added to Part-B (Resin side).

TECHNICAL DATA (BASED ON DRAW DOWN FILM)

Mix Ratio by Volume	1A : 1B
Pot Life @ 150°F (65.5°C), 50% R.H.	2-4 seconds
Tack Free Time (thickness & substrate temperature dependent)	15-30 seconds
Recoat Time	0 - 6 hours
Viscosity at 150-160°F (65.5-71°C)	
Side-A	100 ± 20 cps
Side-B	60 ± 20 cps
Density (Side A & B Combined)	8.84 lbs/gal
Flash Point	> 200°F (93.3°C)
Hardness, ASTM D-2240	60 ± 5 Shore D
Tensile Strength, ASTM D-412*	3000 ± 200 psi 20.68 ± 1.37 MPa
Elongation, ASTM D-412*	275 ± 50%
Tear Resistance, ASTM D-412*	450 ± 50 pli 78.8 ± 8.8 kNm
Service Temperature - Dry	-40°F to 250°F -40°C to 121°C
Service Temperature - Wet	40°F to 120°F 4.44°C to 48.89°C
Water Vapor Transmission ASTM E-96	0.48 Perm

(*These physical properties from sample sprayed with Graco EXP2 @ 2000 psi minimum, with Fusion Gun AP4242 @ 150-160°F (65°C to 71°C) blistering. Color change, gloss reduction & chalking are noted. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate).

Due to its aromatic composition, Polyeuro 5602 will tend to yellow or darken in color and will become flat after exposure to UV light. Polyeuro 5602 may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

Packaging

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

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

Coverage

Polyeuro 5602 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 previously used substrates, 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. 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 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 3-4 mils. Prime and shoot Polyeuro® onto 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.

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. Contact Polycoat Products for recommended primer. 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.

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. Contact Polycoat Products for recommended 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.

ALL OTHER SURFACES

An adhesion test is recommended prior to starting the project.

Mixing

Polyeuro 5602 may not be diluted under any circumstances. Thoroughly mix Polyeuro® 5602 Part-B material with air driven power equipment until a homogeneous mixture and color is obtained.

Application

Both Part-A and Part-B material should be preconditioned at 80-90°F before application.

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

Polyeuro 5602 should be applied using a plural component, heated, high pressure 1:1 spray 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 5602 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

Storage

Polyeuro® 5602 has a shelf life of six (6) months from date of manufacture in original, factory-sealed containers. Avoid exposure to 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.

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