Product Description
Polyeuro® 5901 is a fast set, 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.

Features
» Excellent Thermal Stability
» No Toxic Vapors
» Meets USDA Criteria
» Seamless
» Low Temperature Flexibility
» Zero VOC
» Odorless
» 100% Solids
» Low Permeance Rate
» Non-Adhesive
» Good Chemical Resistance
» Excellent Color Retention
» Coats Most Metals without Primer
» Installed With or Without Reinforcement in Transistional Areas

Typical Uses
» Refineries
» Fertilizer Plants
» Mining Operations
» Food Processing Plants
» Marine Environments
» Secondary Containment
» Walkways and Balconies
» Water and Waste Water Treatment
» Industrial and Manufacturing Facilities
» Power Plants
» Structural Steel
» Warehouse Floors
» Cold Storage Facilities
» Landfill Containment
» Paper and Pulp Mills
» Parking Garage Decks

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 5901 will tend to yellow or darken in color and will become flat after exposure to UV light. Polyeuro 5901 may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

Coverage
Polyeuro 5901 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, Polycote 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 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 3-4 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 commer-cially 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 5901 may not be diluted under any circumstances. Use appropriate cleaner for purge line and flushing of equipment and if spraying stops for periods exceeding the pot life of the material. Thoroughly mix Polyeuro 5901 Part-B (Resin side) 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 75-80°F before application. Recommended surface temperature must be at least 5°F above the dew point. Polyeuro 5901 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 5901 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

**Storage**
Polyeuro 5901 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.