Product Description
Polyeuro® 5502-18PW is ANSI/NSF 61 approved for direct contact with potable water. It 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® 5502-18PW offers a tack free time of less than forty-five seconds and exhibits 450% elongation upon curing with 50 Shore D hardness.

FEATURES
- ANSI/NSF 61 Approved for Potable Water
- Excellent Thermal Stability
- Low Temperature Flexibility
- Good Chemical Resistance
- Coat Pipe 9” In Diameter or Greater
- Suitable for 5 Gallon Tanks and Larger
- Coats Carbon or Mild Steel Metals without Primer
- Installed With or Without Reinforcement in Transitional Areas
- Seamless
- Odorless
- Meets USDA Criteria
- No Toxic Vapors

TYPICAL USES
- Potable Water Tanks - Concrete or Metal
- Potable Water Pipes

Colors
Clear/Neutral. Custom colors are available upon request. Color Packs, when used, must be added to Part-B.

Coverage
Polyeuro® 5502-18PW 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 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.

TECHNICAL DATA (BASED ON DRAW DOWN FILM)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix Ratio by Volume</td>
<td>1A : 1B</td>
</tr>
<tr>
<td>Pot Life @ 150°F (65.5°C), 50% R.H.</td>
<td>4-6 seconds</td>
</tr>
<tr>
<td>Tack Free Time (thickness &amp; substrate temperature dependent)</td>
<td>30 - 45 seconds</td>
</tr>
<tr>
<td>Recoat Time</td>
<td>0 - 6 hours</td>
</tr>
<tr>
<td>Viscosity at 150-160°F (65.5-71°C)</td>
<td>Side-A: 100 ± 20 cps Side-B: 50 ± 20 cps</td>
</tr>
<tr>
<td>Density (Side A &amp; B Combined)</td>
<td>8.80 lbs/gal</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 200°F (93.3°C)</td>
</tr>
<tr>
<td>Hardness, ASTM D-2240</td>
<td>50 ± 5 Shore D</td>
</tr>
<tr>
<td>Tensile Strength, ASTM D-412*</td>
<td>3000 ± 200 psi</td>
</tr>
<tr>
<td>Elongation, ASTM D-412*</td>
<td>400% ± 50%</td>
</tr>
<tr>
<td>Tear Resistance, ASTM D-412*</td>
<td>450 ± 50 pli</td>
</tr>
<tr>
<td>Service Temperature Dry</td>
<td>-40°F to 250°F</td>
</tr>
<tr>
<td></td>
<td>-40°C to 121°C</td>
</tr>
<tr>
<td>Wet</td>
<td>40°F to 120°F</td>
</tr>
<tr>
<td></td>
<td>4.44°C to 48.89°C</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0%</td>
</tr>
<tr>
<td>Recommended Applied Thickness</td>
<td>&gt;2mm</td>
</tr>
<tr>
<td>Return to Service Foot Traffic</td>
<td>1-4 hours</td>
</tr>
<tr>
<td>Full Service</td>
<td>&gt;24 Hours</td>
</tr>
<tr>
<td>(*) 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.</td>
<td></td>
</tr>
</tbody>
</table>

PACKAGING

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-gallon kit</td>
<td>5 gallons (18.9 liters) Side-A (Isocyanate side) and 5 gallons (18.9 liters) Side-B (Resin side)</td>
</tr>
<tr>
<td>100-gallon kit</td>
<td>50 gallons (189 liters) Side-A (Isocyanate side) and 50 gallons (189 liters) Side-B (Resin side)</td>
</tr>
</tbody>
</table>

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 F1899 - 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® 5502-18PW may not be diluted under any circumstances. Thoroughly mix Polyeuro® 5502-PW Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

**Application**
Both Part-A and Part-B materials should be preconditioned to 75-80°F before application.

**Storage**
Polyeuro® 5502-18PW has a shelf life of one (1) year from date of manufacture, in factory-sealed containers.

**Limitations**
Do not open until ready to use.

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