PRODUCT DESCRIPTION
Polyeuro® 8245 is designed for acid and base environments and is a fast set, rapid curing, 100% solids, flexible, aromatic, two component spray polyurethane 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 (-28.8°C). 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
- Coats Most Metals without Primer
- Excellent Acid & Base Resistance
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- Excellent Thermal Stability
- Extremely Low Permeance Rate
- Installed With or Without Reinforcement in Transitional Areas
- Low Temperature Flexibility
- Meets USDA Criteria
- Seamless

TYPICAL USES
- Cold Storage Facilities
- Fertilizer Plants
- Food Processing Plants
- Marine Environments
- Mining Operations
- Paper and Pulp Mills
- Power Plants
- Refineries
- Structural Steel
- Water and Waste Water Treatment

PACKAGING
10-gallon kit: 5 gallon (18.9 liters) pail of Side-A, 5 gallon pail (18.9.9 liters) of Side-B
100-gallon kit: 5 gallon (189 liters) pail of Side-A, 5 gallon pail (189 liters) of Side-B

COLORS
Black and Grey. Custom colors are available upon request. Color Packs, when used, must be added to Side-B.
Due to its aromatic composition, Polyeuro® 8245 will tend to yellow or darken in color and will become flat after exposure to UV light

COVERAGE
Polyeuro® 8245 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil (0.254 microns) thickness is one gallon per 1600 sqft (3.78 liters per 149 sqm).

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

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 @ 160°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>60 - 80 seconds</td>
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<tr>
<td>Recast Time</td>
<td>0 - 2 hours</td>
</tr>
<tr>
<td>Viscosity cps at 150-160°F (65.5-71°C)</td>
<td></td>
</tr>
<tr>
<td>Side-A</td>
<td>200 ± 20</td>
</tr>
<tr>
<td>Side-B</td>
<td>500 ± 20</td>
</tr>
<tr>
<td>Density (Side A &amp; B Combined)</td>
<td>8.75 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>2000 ± 200 psi (13.79 ± 1.37 MPa)</td>
</tr>
<tr>
<td>Elongation, ASTM D-412*</td>
<td>80% ± 20%</td>
</tr>
<tr>
<td>Tear Resistance, ASTM D-412*</td>
<td>300 ± 50 psi (52.5 ± 8.8 kN/m)</td>
</tr>
<tr>
<td>Service Temperature - Dry</td>
<td>-40°F to 250°F (-40°C to 121°C)</td>
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<tr>
<td>Service Temperature - Wet</td>
<td>40°F to 120°F (4.4°C to 48.8°C)</td>
</tr>
<tr>
<td>Water Vapor Transmission ASTM E-96</td>
<td>0.88 Perm</td>
</tr>
</tbody>
</table>

(*)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.

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. Polycote recognizes the potential for unique substrates from one project to another. The following information is for general reference. For project-specific questions, contact Polycote.

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 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 2-3 mils (50-76 microns). Prime and shoot Polyure® 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® 8245 may NOT be diluted under any circumstances. Thoroughly mix Polyeuro® 8245 Side-B (Resin side) with air driven power equipment until a homogeneous mixture and color is achieved.

APPLICATION
Both Side-A and Side-B materials should be preconditioned to 90-100°F (32-37°C) before application. Recommended surface temperature must be at least 5°F (3°C) above the dew point. Polyuro® 8245 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 Side-A and Side-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F (66°C). Adequate pressure and temperature should be maintained at all times. Polyeuro® 8245 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

STORAGE
Polyeuro® 8245 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C). Side-A and Side-B drums are recommended to be stored above 60°F (15°C). Avoid freezing temperatures. 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
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 isocyanates and curative material.

Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. 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, instructions, and project specific recommendations.

Limited Warranty: Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products’ current published physical properties. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product 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 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.

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