

## ▶ PolyGhard 3085, Aluminum

Two Component Modified Polyurea Protective Coat

PolyGhard 3085, Aluminum is a two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

### FEATURES & BENEFITS

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

### TYPICAL USES

- Waterproofing for urethane foam roofing
- Secondary containment coating - provides a chemical resistant membrane over concrete and steel in approved tank farms
- Chemical resistance for Styrofoam flotation
- Abrasion resistance over wood, metal and concrete
- Water and chemical resistance for concrete block and poured walls

### DIRECTION OF USE

#### **Color**

Aluminum

Due to its aromatic composition, PolyGhard 3085, Aluminum will tend to yellow or darken in color and will become flat after exposure to UV light. PolyGhard 3085, Aluminum may be top coated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

#### **Packaging**

10 gallon kit: One 5 gallon pail of Part-A and one 5 gallon pail of Part-B. 100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B.

#### **Coverage**

PolyGhard 3085, Aluminum may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

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### DIRECTION OF USE

#### **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. Ghemco recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact Ghemco.

#### **Mixing**

PolyGhard 3085, Aluminum may not be diluted under any circumstances. Thoroughly mix PolyGhard 3085, Aluminum 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.

PolyGhard 3085, Aluminum 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.

PolyGhard 3085, Aluminum should be sprayed in smooth, multi-directional passes to improve uniform thickness and appearance.

### SAFETY

#### **Storage**

PolyGhard 3085, Aluminum 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.

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## TECHNICAL DATA

<b>Pot Life at 150-160°F</b>	3 - 5 seconds
<b>Tack Free Time</b>	20 - 40 seconds
<b>Recoat Time</b>	0 - 12 hours
<b>Viscosity at 77-80°F</b>	
<b>Part-A</b>	500 - 700 cps
<b>Part-B</b>	650 - 850 cps
<b>Density</b> <small>(Part-A/Part-B combined)</small>	9.22 lbs/gal
<b>Flash Point</b>	>200°F
<b>Hardness</b> <small>ASTM D-412</small>	85 ± 5 Shore A
<b>Tensile</b> <small>ASTM D-412</small>	1700 ± 200 psi
<b>Elongation</b> <small>ASTM D-412</small>	325 ± 50%
<b>Tear</b> <small>ASTM D-412</small>	225 ± 25 pli
<b>Service Temperature</b>	-40°F to 250°F

\* This information is intended only as a guide for design purposes. The values shown are the average values obtained from sprayed laboratory samples. The test methods were performed per the ASTM Book of Standards. Higher or lower temperature & humidity conditions will affect dry time. The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

Please read all information in the general guidelines, technical data sheets, application guide, and safety data sheets (SDS) before applying material. Published technical data and instructions are subject to change with- out notice. Contact your local Ghemco Representative or visit our website for current technical data and instructions. **DISCLAIMER:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ghemco makes no claim that these tests or any other tests, accurately represent all environments.