

# ▶ PolyGhard 3061 PipeQuatic

Two Component, 100% Solids, Polyurethane Coating

PolyGhard 3061 PipeQuatic is a direct-to-metal, quick-set, two component, 100% solids polyurethane designed to protect pipelines from corrosion and abrasion. PolyGhard 3061 PipeQuatic is a high performance 100% solids structural polyurethane which is designed specifically for steel, ductile iron, and concrete pipe. Persistent adhesion and high impact resistance allows it to be utilized in the severest environments. Product meets the requirements of AWWA C222-08 .

## FEATURES & BENEFITS

- 1:1 Mix Ratio
- Abrasion and Impact Resistant
- Excellent Adhesion Directly to Steel and Ductile Iron
- Fast Curing for Increased Productivity and Short Turn-Around Time
- High Tensile Strength
- Horizontal Surface Application
- Low Temperature Flexibility
- Plural Component Spray Application
- Quick Gel Time
- Unlimited Film Build with Single Multi-Pass Application (25 to 35 mils for most steel applications)
- Zero VOC (100% Solids)

## TYPICAL USES

- Buried Tank Exteriors
- Penstocks
- Power Plants
- Steel Pilings
- Steel Pipeline Exteriors
- Steel Pipe Linings and Repair
- Steel Poles (above & below ground)
- Storage Tanks

## DIRECTION OF USE

### **Colors**

Blue, black, grey, and white.

### **Packaging**

10 gallon kit: 5 gallons (18.9 liters) Part-A and 5 gallons (18.9 liters) Part-B.

100 gallon kit: 50 gallons (189 liters) Part-A and 50 gallons (189 liters) Part-B.

540 gallon kit: 270 gallons (1,022 liters) Part-A and 270 gallons (1,022 liters) Part-B.

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## DIRECTION OF USE

### Coverage

PolyGhard 3061 PipeQuatic 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). Estimating Formula: (1600 sqft per gal /Dry Mil Thickness) x Solids Content = Application Rate per Gallon.

### Surface Preparation

Ensure the surface is clean, dry and uncontaminated in accordance with SSPC-SP1. Continue only if the substrate temperature is more than 5° F (3°C) above the dew point temperature during surface preparation and coating application.

Abrasive blast clean with angular media (sand, aluminum oxide, garnet or steel grit G40 or coarser). DO NOT USE steel shot or non-angular products or slag-based media.

**Steel Surfaces:** Blast to a Near White Blast (SSPC-SP10; NACE 2; SA 2.5):  
minimum 3 - 4 mil (75-100u microns) profile for immersion;  
minimum 2.5 mil (65 microns) profile for buried;  
minimum 2.0 mil (50 microns) profile for atmospheric service.

**Ductile Iron Surfaces:** Abrasive blast to achieve a surface anchor profile of 2/5 mils or greater. Remove all rust and loose oxides.

**Concrete Surfaces:** Abrasive blast to remove any surface laitance.

**Galvanized Steel Surfaces:** Contact a Ghemco Representative. See Ghemco Application Instructions for additional details. For project-specific questions, contact Ghemco.

### Mixing

PolyGhard 3061 PipeQuatic may NOT be diluted under any circumstances. Agitate individual components thoroughly before use to disperse pigments and assure homogeneity. DO NOT thin or mix Side-A and Side-B together.

### Application

Spray apply PolyGhard 3061 PipeQuatic using a plural component, 1:1 mix ratio, heated airless spray unit. See below for suggested application settings and conditions:

Condition	Material	Surface	Ambient	Humidity
Optimum	130-140°F (54-60°C)	70-90°F (21-32°C)	70-90°F (21-32°C)	0-50%
Minimum	125°F (53°C)	0°F (-18°C)	35°F (2°C)	0%
Maximum	150°F (66°C)	120°F (49°C)	120°F (49°C)	85%

Application Temperature should be -40°F (-40°C) to 150°F (65°C).

Initial setting time at 70°F (20°C) is less than 5 minutes. Set time may be adjusted depending on production needs.

Cure time before handling at 70°F (20°C) is greater than 20 minutes.  
Ultimate cure time at 70°F (20°C) is at least 7 days or more.

Recoat time at 70°F (20°C) is dependent on temperature and thickness of material, but should be within 1-3 hours.

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High film thickness can be obtained in one continuous coating operation, using one of several techniques. Contact a Ghemco Representative for more details.

For coating on a conveyor line, a uniform pipe temperature of between 70°F (20°C) and 120°F (55°C) is required to enable the coating to cure quickly.

A second coat may be applied over the first, so long as it is applied within the recoat window. Otherwise, it will be necessary to roughen the surface to ensure good intercoat adhesion. Contact your Ghemco Representative for details on recoating windows.

### Cure

Condition	Dry to Touch (75°F)	Dry to Handle (75°F)
Quick-Set	50-60 seconds	4-5 minutes
Medium-Set	70-90 seconds	6-9 minutes
Slow-Set	2.5-3 minutes	13-15 minutes

## SAFETY

### Storage

PolyGhard 3061 PipeQuatic 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).

This material will react with humidity and moisture. Keep containers tightly sealed. For clean-up, use MEK or 50/50 MEK/Xylene.

### Limitations

Provide ample ventilation in confined areas. Protect skin by wearing rubber gloves, safety goggles and other appropriate PPE. Wear NIOSH approved cartridge type face mask and fresh air respirator in the spray area. Review Application Guidelines for additional information and consult with your Ghemco Representative for additional safety information.

### Warning

This product contains Isocyanates and Curative Material.

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## TECHNICAL DATA

<b>% Solids Content by Volume</b>	100%
<b>Theoretical Coverage</b>	1604 ft <sup>2</sup> / US gal / mil (1000 m <sup>2</sup> / liter / micron)
<b>Adhesion to Steel</b> <small>ASTM D-4541</small>	>3,571 psi
<b>Hardness, Shore D</b> <small>ASTM D-2240</small>	80 + 3 Shore D
<b>Flexibility</b> <small>ASTM D-522</small>	No Cracking or Delamination
<b>Abrasion Resistance</b> <small>ASTM D-4060</small>	74 mg
<b>Resistance to Cathodic Disbondment</b> <small>ASTM G-95-07(13)</small>	<8 mm average results
<b>Chemical Resistance</b> <small>ASTM D-453</small>	<5% Change in mass, length and width (10% Sulfuric Acid, 30% Sodium Chloride, 30% Sodium Hydroxide, No.2 Diesel Fuel)
<b>Dielectric Strength</b> <small>ASTM D-149</small>	769 volts per mil
<b>VOC (Side A / B combined)</b> <small>ASTM D2369-81</small>	0 lbs/gal; 0 gm/liter
<b>Impact Resistance</b> <small>ASTM G-14</small>	125.8 in. lbs.
<b>Accelerated Weathering</b> <small>ASTM G-154</small>	No Cracking; Some Chalking & Darkening
<b>Water Absorption</b> <small>ASTM D-570</small>	1.33%

\* 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.