POLYQuik® P-660
Fast-setting Polyurea Coating with Excellent Properties

DESCRIPTION
POLYQuik® P-660 is a two-component, aromatic, sprayable polyurea elastomeric coating. It is used as a chemical-resistant, waterproof, protective coating for both vertical and horizontal surfaces. It is resistant to corrosion and many chemicals, including hydrogen sulfide, acids, and hydrocarbon solvents.

WHERE TO USE
• Primary and Secondary Containment – storage tanks
• Waterproofing – above or below grade
• Wastewater – protect surfaces from gases and chemicals
• Protective Coatings – for concrete, wood, metal

FEATURES AND BENEFITS
• Superior properties – excellent crack-bridging
• Two-component cure – fast cure time
• Serviceable within 1 hour – reduces facility downtime
• Excellent chemical resistance – containment coating

PACKAGING
• 10 gallon (37.9 L) kits
• 100 gallon (379 L) kits

COLORS
• Black, Gray

YIELD
• 26 sq.ft per gal. at 60 mils or 3.8 gal. per 100 sq.ft. (0.63 sq.m. per liter)

SHELF LIFE
• 1 year(s) when properly stored,

STORAGE
• Store and ship this product in a clean, dry, low-humidity, shaded or covered environment at 60 to 90°F (15 to 32°C).

TECHNICAL INFORMATION

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC, lb/gal (g/L), ASTM D 2369</td>
<td>0</td>
</tr>
<tr>
<td>Viscosity, cps, ASTM D 4878, Part A / Part B</td>
<td>850 / 1100</td>
</tr>
<tr>
<td>Service temperature, °F (°C)</td>
<td>-26 to 300 (-32 to 190)</td>
</tr>
<tr>
<td>Gel time, sec</td>
<td>35</td>
</tr>
<tr>
<td>Tack-free time, minutes</td>
<td>2</td>
</tr>
<tr>
<td>Tensile, psi (MPa), ASTM D 412</td>
<td>2,500 (17)</td>
</tr>
<tr>
<td>Elongation, %, ASTM D 412</td>
<td>660</td>
</tr>
<tr>
<td>Hardness, Shore D, ASTM D 2240</td>
<td>40</td>
</tr>
<tr>
<td>Tear (Din C), psi (kN/m), ASTM D 624</td>
<td>389 (67)</td>
</tr>
<tr>
<td>Abrasion resistance, H-18, 1kg, 1k cycles, ASTM D 4080</td>
<td>203</td>
</tr>
<tr>
<td>Concrete adhesion, psi (MPa), ASTM D 4541</td>
<td>350 (2.4)</td>
</tr>
<tr>
<td>Crack bridging, 1/8” at 60 mils, ASTM C 836</td>
<td>Pass</td>
</tr>
<tr>
<td>Hydrostatic pressure, ASTM D535, 0.060 in. (1.5mm) feet (meter) of water</td>
<td>231 (70)</td>
</tr>
<tr>
<td>Moisture vapor transmission, Perms, ASTM E 96</td>
<td>0.95</td>
</tr>
<tr>
<td>Puncture resistance, lbs (kgl), ASTM D 4833</td>
<td>60 (27)</td>
</tr>
<tr>
<td>Low Temp. Flexibility, 20°F, ½” rod, ASTM D 522</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Processing Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratio by volume</td>
<td>1 to 1</td>
</tr>
<tr>
<td>Application temp, °F (°C)</td>
<td>20 to 120 (-7 to 50)</td>
</tr>
<tr>
<td>Recommended thick., mils (mm)</td>
<td>20 to 125 (0.5 to 3.0)</td>
</tr>
<tr>
<td>Meter equipment</td>
<td>Heated Plural Component(30 Mesh Y-Strainer Screens)</td>
</tr>
<tr>
<td>Gun requirement</td>
<td>Impingement (40 Mesh Screens)</td>
</tr>
<tr>
<td>Spray pressure, psi (MPa)</td>
<td>2,000 to 3,000 (13.8 to 20.4)</td>
</tr>
<tr>
<td>Spray temperature, primary heaters and hose, °F (°C)</td>
<td>150 to 180 (65 to 82)</td>
</tr>
</tbody>
</table>
**SURFACE PREPARATION**

**CONCRETE**

1. The surface being coated must be fully cured 28 days, structurally sound (200 psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5% surface moisture, ASTM E 1907 and D 4263).

2. The surface must have low moisture-vapor transmission (less than 3 lb/24 hr/1,000 ft², RMA Test Method).

3. Do not apply over concrete if vapor barrier is not present or unknown.

4. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting or hydroblasting. Remove contaminants before blasting.

5. Fill all voids and cracks between 0.06-0.50” (1.5-12.5mm) with POLYQuik® HPU-FILLER.

**STAINLESS STEEL & OTHER METALS**

1. Steel surfaces must be cleaned before blasting (SSPC-SP1). Remove any sharp edges and other surface imperfections.

2. Dry abrasive blast surface according to SSPCSP-10/NACE No. 2 (0.003” profile).

3. Remove any non-visible soluble salt contamination (less than 3 mg/cm², NACE 66186, CHLOR® RDI).

4. Apply POLYQuik® primer and coating only if steel surface temperature is 5°F (3°C) above the dew point to avoid application over damp surface.

5. Apply POLYQuik® primer and coating within the same day and before rusting occurs.

6. For aluminum and galvanized metals, contact your WVCO Representative.

**APPLICATION**

**PROCESSING**

1. Precondition material to at least 70° F (21° C) 24 hours and thoroughly mix Part B for at least 30 minutes before proportioning begins. Use a mixer fitted with blades that are 1/3 the diameter of the container to redistribute any settled material.

2. POLYQuik® P-660 must be sprayed with a plural-component GRACO mixer fitted with blades that are 1/3 the diameter of the container to redistribute any settled material.

3. Proportioner must generate a minimum spray pressure of 2,000 psi (13.8 MPa) and maintain a stable pressure differential between Part A and Part B during application.

4. For high output applications, use a GRACO Fusion AP AR4242, GX7-400 with a 453 modules & 212PCD. For moderate-to-low output applications use Fusion AW333/AW3939 (40-mesh screen) or GX-8 (60-mesh screen) gun.

5. Fill all voids and cracks between 0.06-0.50” (1.5-12.5mm) with POLYQuik® HPU-FILLER.

6. For aluminum and galvanized metals, contact your WVCO Representative for additional information.

**HEALTH AND SAFETY**

Before handling, you should become familiar with the Material Safety Data Sheet (MSDS) regarding the risks and safe use of this product. To obtain an MSDS please call 800-333-9826 or send an email to: msds@wilvaco.com

**CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE.**

**APPLICATION**

1. Priming is required. Use POLYQuik® PolyPrime or POLYQuik® Epoxy Primer. Refer to primer technical data sheet for application and cure time information.

2. Wear protective gloves, safety glasses, respirators, and clothing while handling POLYQuik® P-660. Make certain the most current versions of product data sheet and MSDS are being used.

3. Avoid blisters and poor adhesion by not applying coating when the temperature is within 5°F (3°C) of the dewpoint or the humidity is above 85%. Apply the coating when the substrate temperature is stable or dropping. Minimize outgassing and pinholes with primers, multiple thin applications of coating (less than 0.010” per coating layer).

4. POLYQuik® P-660 color will discolor or fade under UV light; however, physical and performance properties will not be affected. For color stability, use POLYQuik® P-540 as a topcoat.

5. Spray POLYQuik® P-660 in a consistent sweeping pattern 15 – 20 mils per pass and maintaining a consistent distance from the substrate. ALWAYS START/STOP SPRAYING OFF TARGET, OTHERWISE BLISTERS MAY FORM.

6. Recoat within 12 hours of application at 70°F (21°C). After 12 hours, mechanically abrade the surface and clean it with acetone or POLYQuik® Gun Cleaner before reapplying within 1 hour.

7. Proper application is the responsibility of the user. Field visits by WVCO Representative are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job.

**CLEANING & MAINTENANCE**

- Use POLYQuik® Gun Cleaner to clean guns and parts after every use. Do not immerse gun in Gun Cleaner.

- CLEAN Y-STRAINERS REGULARLY. INSPECT Throat Seal Liquid (TSL) DAILY & REPLACE EVERY MONTH.

- Flush the metering equipment with POLYQuik® Pump Lube and replace Pump Lube when cloudy.

**NOTE**

Proper application is the responsibility of the user. Field visits by WVCO Representative are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job.

**DISCLAIMER OF WARRANTY**

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Proper application is the responsibility of the user. As with any product the use of this product in a given application must be tested (including but not limited to field testing in advance by the user to determine suitability. Testing is the requirement of both engineers and contractors alike. WVCO does not warrant the application under any or all circumstances.

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