**Product Description**
Polyglaze™ 400FR/400FR-C/400FR-SC is an aliphatic, two component, liquid applied, moisture cured, polyurethane coating. Polycoat Products manufactures products in different VOC’s ranging from 100 to 340 gms/liter to comply with VOC requirements in various regions. Make sure to use the right grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

**Features**
- Durable
- Fire Retardant
- UV Resistant for Gloss Retention

**Typical Uses**
- Concrete
- Heavy Pedestrian Traffic
- Plywood
- Vehicular Traffic

**Packaging**

<table>
<thead>
<tr>
<th>Gallon Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Gallon</td>
<td>1 gallon (3.78 liters) can</td>
</tr>
<tr>
<td>5-Gallon</td>
<td>5 gallon (18.9 liters) pail</td>
</tr>
<tr>
<td>55-Gallon</td>
<td>55 gallon drum, net fill 50 gallons (189 liters)</td>
</tr>
</tbody>
</table>

**Colors**
- For Polyglaze™ 400FR (340 VOC): Tan

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information. For pre-tinted standard color other than stock color, a minimum of 150 gallons (567 liters) is required.

**Coverage**
The approximate coverage is 1 gallon/100 sqft (0.41 l/sqm). Coverage rate will depend on surface roughness and porosity.

**Mixing**
The volume mixing ratio is 1 part Polyglaze™ 400FR/400FR-C/400FR-SC Side-A Powder to 5 parts of Polyglaze™ 400FR/400FR-C/400FR-SC Side-B Liquid.

**Technical Data (Based on Draw Down Film)**

<table>
<thead>
<tr>
<th></th>
<th>Polyglaze 400FR (340 VOC)</th>
<th>Polyglaze 400FR-C (250 VOC)</th>
<th>Polyglaze 400FR-SC (100 VOC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coverage Rate</strong></td>
<td>1 gal/100 sqft</td>
<td>1 gal/100 sqft</td>
<td>1 gal/100 sqft</td>
</tr>
<tr>
<td></td>
<td>0.41 l/sqm</td>
<td>0.41 l/sqm</td>
<td>0.41 l/sqm</td>
</tr>
<tr>
<td><strong>Dry Film</strong></td>
<td>11 ± 2 mils</td>
<td>11 ± 2 mils</td>
<td>13 ± 2 mils</td>
</tr>
<tr>
<td><strong>Thickne per Coat</strong></td>
<td>279 ± 50 microns</td>
<td>279 ± 50 microns</td>
<td>330 ± 50 microns</td>
</tr>
<tr>
<td><strong>Hardness, ASTM D2240</strong></td>
<td>95 ± 5 Shore A</td>
<td>95 ± 5 Shore A</td>
<td>95 ± 5 Shore A</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.36 ± 0.1</td>
<td>1.42 ± 0.1</td>
<td>1.49 ± 0.1</td>
</tr>
<tr>
<td><strong>Total Solids by Weight, ASTM D2566</strong></td>
<td>79 ± 2%</td>
<td>79 ± 2%</td>
<td>82 ± 2%</td>
</tr>
<tr>
<td><strong>Total Solids by Volume, ASTM D2547</strong></td>
<td>68 ± 2%</td>
<td>71 ± 2%</td>
<td>77 ± 2%</td>
</tr>
<tr>
<td><strong>Viscosity at 75°F (24°C)</strong></td>
<td>2400 ± 500 cps</td>
<td>2700 ± 500 cps</td>
<td>3500 ± 500 cps</td>
</tr>
<tr>
<td><strong>Volatile Organic Compounds</strong></td>
<td>2.33 lb/gal</td>
<td>1.67 lb/gal</td>
<td>0.71 lb/gal</td>
</tr>
<tr>
<td></td>
<td>280 gm/liters</td>
<td>200 gm/liters</td>
<td>85 gm/liters</td>
</tr>
</tbody>
</table>

**Step 1:** Mix the Polyglaze™ 400FR/400FR-C/400FR-SC Liquid using a mechanical mixer at slow speed until a homogeneous mixture and color is attained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix in an up and down motion.

**Step 2:** Remove plastic bag of Polyglaze™ 400FR/400FR-C/400FR-SC Side-A Powder from the 6 gallon (22.68 liter) pail and set aside. Fill this empty container half full with the pre-mixed Polyglaze™ 400FR/400FR-C/400FR-SC Side-B Liquid. Slowly add Polyglaze™ 400FR/400FR-C/400FR-SC Side-A Powder, mixing with mechanical mixer.

Ensure that all powder is transferred from the bag to the container. Continue mixing until no lumps are present, again being careful not to entrap air in the mixture.

**Step 3:** When Polyglaze™ 400FR/400FR-C/400FR-SC Side-A Powder has been thoroughly blended into Polyglaze™ 400FR/400FR-C/400FR-SC Side-B Liquid add the rest of Polyglaze™ 400FR/400FR-C/400FR-SC Side-B Liquid. Mix with mechanical mixer until uniform mixture is attained. Mixed material must be used within 2-4 hours of mixing the two components.
Application
For best results, airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

Requires a continuous coating application to minimize lines and/or streaking.

Curing
At 75°F (24°C) and 50% relative humidity, allow each coat to cure 16 hours. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, re-prime the surface with PolyPrime® U before proceeding.

Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

Uncured Polyglaze™ 400FR/400FR-C/400FR-SC is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.

Low temperature and/or low humidity extend the cure time.

If accelerated curing is required, add one quart (0.95 liter) of Polyglaze™ Hardener in a 5 gallon pail (18.9 liters) of Polyglaze™ 400FR/400FR-C/400FR-SC Side-B Liquid and mix thoroughly. This accelerated Polyglaze™ 400FR/400FR-C/400FR-SC will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity. If Polyglaze™ Hardener is used to accelerate curing, the re-coat window for the subsequent coat is reduced to 24 hours after cure. If the recoat window has passed, then solvent wipe the surface with VOC-compliant solvent and re-prime surface.

Cleanup
Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage
Polyglaze™ 400FR/400FR-C/400FR-SC has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations
The following conditions must not be coated with Polycoat deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. Grade slabs may receive Polycoat system coatings provided a moisture-vapor transmission test is first performed. Please contact Polycoat's technical department with the results.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning
This product contains Isocyanates and Solvent.