**ShaliPoxy® GF**

**2K High Solid Glass Flake Epoxy**

**Description**

ShaliPoxy® GF is a two component, glass flakes reinforced epoxy coating having excellent abrasion / chemical resistance and high barrier properties. It can be used as abrasion resistant coating above and below water vessel areas subject to corrosion. ShaliPoxy® GF is suitable for use in marine environments as protective coating from acids, alkalis, solvents and salts.

ShaliPoxy® GF has good application characteristic with excellent corrosion and chemical resistance. ShaliPoxy® GF is designed for application in a single high build coat by plural feed airless spray gun.

**Characteristic – Physical**

<table>
<thead>
<tr>
<th>Color **</th>
<th>Grey, Light Reddish</th>
<th>Theoretical Coverage *, m² / L, 400 micron DFT</th>
<th>2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drying time, @ 27 °C, 55%RH</td>
<td>2 – 3 hr</td>
<td>Ratio by volume **</td>
<td>2 : 1</td>
</tr>
<tr>
<td>Touch dry</td>
<td>12 hr</td>
<td>Volume Solids, %</td>
<td>100</td>
</tr>
<tr>
<td>Hard Dry</td>
<td>7 days</td>
<td>Specific Gravity (Mixed) @ 27 °C</td>
<td>1.18 ± 0.02</td>
</tr>
<tr>
<td>Full Cure</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Recommended DFT, micron**

- 350 - 400

**Scratch Resistance @ 7 Days**

- No Failure up to 4 kg Load

**Application Temperature °C**

- > 7

**Surrounding Humidity, %**

- < 85

* Depending upon surface condition

**Characteristic - Technical**

<table>
<thead>
<tr>
<th>Hardness (Shore D)</th>
<th>ASTM D 2240</th>
<th>75 - 80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taber Abrasion @ 7 Days, mg loss</td>
<td>ASTM D 4060</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>Pot Life @ 27°C, 55%RH, 100g, minutes</td>
<td>ASTM D 2471</td>
<td>25 ± 10</td>
</tr>
</tbody>
</table>

**Chemical Resistance**

<table>
<thead>
<tr>
<th>10% Nitric Acid</th>
<th>Good</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Sulfuric Acid</td>
<td>Excellent</td>
</tr>
<tr>
<td>50% Sulfuric Acid</td>
<td>Excellent</td>
</tr>
<tr>
<td>10% Sodium Hydroxide</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

**Application**

- Splash zone.
- Jetty pilings and working decks.
- Use as internal lining for crude oil, fuel oil and storage tanks.
- Boat bumpers and landings.

**Advantages**

- Excellent abrasion resistance.
- Excellent acid-alkali resistance.
- Excellent solvent resistance.
- Enhanced barrier properties.
- Good physical strength.
Application Methodology

- **Surface Preparation**
  - Remove all loose gravel, dirt, oil, grease or other loose foreign particles by sand blasting / iron brush / compressed air.
  - Prepare surface by mechanical grinding, shot blasting conforming to SA2½.

- **Material Preparation**
  - Stir drums of each component thoroughly for uniformity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod.
  - Pre heat Part- A @ 50 - 70 °C and Part-B @ 50 - 60 °C.

- **Application of Material**
  - Apply ShaliPoxy® GF by plural feed airless spray gun to the required thickness on the prepared substrate.
  - The tip pressure typically should be 2500-4000 psi (the tip pressure should be adjusted to achieve good atomization of the spray) with minimum 45:1 pump ratio or above.
  - Tip size typically should be 25 - 30 Thou orifice.
  - For single feed airless spray gun, add component B to component A (without heating of each component), stir well for uniformity with drill mixer, wait for 2-5 minutes and then apply. For single feed airless spray application thinning of the material with STP Thinner may be required as per machine pump ratio to get best atomization of the spray. The tip size should be between 25-35 Thou orifice.

Cleaning

- Clean all tools immediately after use with STP Thinner.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

- The material is available in 200 liter and 15 liter (For single feed spray application) pack.

Storage

- Store in a cool dry place, under shed, away from heat.

Shelf Life

- 12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38 °C.
STP’s Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Protective / Anti-Corrosive Coating
GARA (Grouts & Admixtures)
Sealant & Additives
Repairs & Rehabilitation
Epoxy Flooring

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