**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></td>
<td>Ratio by volume **</td>
<td>2 : 1</td>
</tr>
<tr>
<td>Touch dry</td>
<td></td>
<td>Volume Solids, %</td>
<td>100</td>
</tr>
<tr>
<td>Hard Dry</td>
<td></td>
<td>Specific Gravity (Mixed) @ 27 °C</td>
<td>1.18 ± 0.02</td>
</tr>
<tr>
<td>Full Cure</td>
<td>2 – 3 hr</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 hr</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended DFT, micron</td>
<td>350 - 400</td>
<td>Scratch Resistance @ 7 Days</td>
<td>No Failure up to 4 kg Load</td>
</tr>
<tr>
<td>Application Temperature °C</td>
<td>&gt; 7</td>
<td>Surrounding Humidity, %</td>
<td>&lt; 85</td>
</tr>
</tbody>
</table>

* Depending upon surface condition  ** Mixing ratio and color can be changed as per customer requirement

**Characteristic - Technical**

| Hardness (Shore D) | ASTM D 2240 | 75 - 80 |
| Taber Abrasion @ 7 Days, mg loss | ASTM D 4060 | < 30 |
| Pot Life @ 27°C, 55%RH, 100g, minutes | ASTM D 2471 | 25 ± 10 |

**Chemical Resistance**

| 10% Nitric Acid | Good |
| 10% Sulfuric Acid | Excellent |
| 50% Sulfuric Acid | Excellent |
| 10% Sodium Hydroxide | Excellent |

**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 STPThinner E 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 Ltr and 15 Ltr (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.