ShaliProtek® 2E PA 80
2K Anti-Corrosive / Protective Flexible Epoxy Polyamide Coating

Description

ShaliProtek® 2E PA 80 is a two-component cold cure epoxy polyamide adduct based coating, filled with special type of anti-corrosive pigment to protect steel, concrete structures, timber and other construction materials in corrosive environment.

ShaliProtek® 2E PA 80 is a high build, self-prime, surface tolerant paint used as intermediate or top coat.

ShaliProtek® 2E PA 80 has excellent abrasion resistant coating system.

Characteristics

<table>
<thead>
<tr>
<th>Application</th>
<th>Brush / Roller / Spray</th>
<th>Solid Content, %, by volume</th>
<th>82 ± 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey / Red</td>
<td>Flash point, °C</td>
<td>28</td>
</tr>
<tr>
<td>Theoretical coverage*, m2 / L</td>
<td>5 - 8</td>
<td>Chemical resistant</td>
<td>Good</td>
</tr>
<tr>
<td>Application temperature, °C</td>
<td></td>
<td>High temperature resistance (Dry), °C</td>
<td></td>
</tr>
<tr>
<td>• Minimum</td>
<td>10</td>
<td>• Continuous</td>
<td>70 – 80</td>
</tr>
<tr>
<td>• Maximum</td>
<td>40</td>
<td>• Occasional</td>
<td>120</td>
</tr>
<tr>
<td>Drying time, 30 °C</td>
<td></td>
<td>Low temperature resistance, °C</td>
<td></td>
</tr>
<tr>
<td>• Touch dry, hrs</td>
<td>3 – 4</td>
<td>• Continuous</td>
<td>- 5</td>
</tr>
<tr>
<td>• Hard dry, hrs</td>
<td>7 – 8</td>
<td>• Occasional</td>
<td>- 15</td>
</tr>
<tr>
<td>• Full cure, day</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Overcoat</td>
<td>Overnight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt spray, 300 hrs @ 150 Micron DFT</td>
<td>Pass</td>
<td>Specific Gravity, Mix, 30 °C</td>
<td>1.45 ± 0.05</td>
</tr>
<tr>
<td>Micron DFT</td>
<td></td>
<td>Pot life, hrs, 30 °C</td>
<td>1</td>
</tr>
<tr>
<td>Recommended DFT, Micron</td>
<td>100 - 150</td>
<td>Hardness Shore D</td>
<td>70 ± 5</td>
</tr>
<tr>
<td>Mixing ratio, by volume</td>
<td>3 : 1</td>
<td>Adhesion, Mpa</td>
<td>&gt; 5</td>
</tr>
</tbody>
</table>

* Depending upon Surface Condition.

Application

- Metal & Steel structure.
- Sheet & pipe piling.
- Dams, Barrage gates, Penstocks.
- Crude oil storage tanks.
- Foundation walls and sumps.
- Concrete and Steel surfaces in sewage treatment plant.
- Paper Mills.
- Chemical Plants.
- Underground structures.

Advantages

- Flexible anti-corrosive / preventive coating for structures – MS or concrete – even where the structure is in continuous contact with water.
- Provides excellent resistance to impact, thermal shock and abrasion.
- Cures to a hard, smooth and flexible surface with excellent resistance to sea / salt water, oil, acids, alkalis, crude oil and minerals.

Application Methodology

- **Surface Preparation**
  - Remove dust, flakes, oil, grease or other foreign particles by jet or dry air and clean the
surface to make it smooth before applying ShaliProtek® 2E PA 80.

- Surface of steel must be prepared as per the NACE (National Association of Corrosion Engineers) or SSPC (The Society for Protective Coatings) guidelines.
- Ensure that new concrete must be at least 28 days old.

➢ **Material Preparation**

- Add whole of Component B into Component A, which are pre-weighted in the ratio 3 : 1 by volume and mix thoroughly for 5 minutes until homogenous mix is achieved. Use slow speed drill (400 – 600 rpm) fitted with a suitable mixing paddle.
- Allow the combined mix to sit for an induction time of 5 minutes. Stir again gently with a hand stirrer to ensure uniformity before application.

➢ **Application of Material**

- Apply ShaliProtek® 2E PA 80 by brush / roller / spray.
- Allow it to dry for 3 – 4 hrs
- Apply second coat of ShaliProtek® 2E PA 80 after 12 hrs, if required to get higher DFT.
- In case of airless spray, use standard equipment having tip size of 0.59 – 0.89 mm and tip pressure 210 - 250 kg / cm².

**Cleaning & Maintenance**

- Clean all tools immediately after use with STP Thinner. Do not allow the material to harden.

**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**

Available in combo pack of 20 L consisting of 15 L Comp A and 5 L Comp B.

**Storage**

Keep in cool and dry place, under shed, away from heat.

**Shelf Life**

12 Months in original unopened sealed condition.