ShaliProtek® 2E 150

2K Anti-Corrosive Protective Epoxy Coating

Description

ShaliProtek® 2E 150 is a two-component, cold cure, high build, epoxy-based anti-corrosive / protective coating to protect steel / concrete structures / timber and other construction materials in corrosive environment.

ShaliProtek® 2E 150 can be applied directly to the prepared metal surface or over the recommended primed surface.

ShaliProtek® 2E 150 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>Flash point, °C</th>
<th>Chemical resistant</th>
<th>High temperature resistance (Dry), °C</th>
<th>Low temperature resistance, °C</th>
<th>Hard dry, hrs</th>
<th>Full cure, day</th>
<th>Touch dry, hrs</th>
<th>Occasional resistance, °C</th>
<th>Pot life, hrs, 30 °C</th>
<th>Specific Gravity, Mix, 30 °C</th>
<th>Adhesion, MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey</td>
<td>76 ± 2</td>
<td>32</td>
<td>Good</td>
<td>Continuous</td>
<td>Continuous</td>
<td>70 – 80</td>
<td>120</td>
<td>3 – 4</td>
<td>Occasional</td>
<td>1.20</td>
<td>1.35 ± 0.03</td>
<td>&gt; 5</td>
</tr>
<tr>
<td>Theoretical coverage*, m² / L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7 – 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application temperature, °C</td>
<td>Minimum</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drying time, 30 °C</td>
<td>Touch dry, hrs</td>
<td>3 – 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hard dry, hrs</td>
<td>7 – 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full cure, day</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Overcoat</td>
<td>Overnight</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt spray, 300 hrs @ 150</td>
<td>Pass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micron DFT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended DFT per coat, Micron</td>
<td>100 - 150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixing ratio, by volume</td>
<td>3: 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Depending upon surface condition.

Application

- Metal & Steel structure.
- Pipeline internal coating for water line.
- 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-coro-sive / 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 150.
  • 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 – 500 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
  • Prime the surface with ShaliPrime® Zn Ph 60 over metal surface whereas ShaliPrime® 2E in case of concrete surface.
  • Allow it to dry.
  • Apply ShaliProtek® 2E 150 by brush / roller / airless spray direct to metal or prime surface.
  • Allow it to dry for 3 – 4 hrs.
  • Apply second coat of ShaliProtek® 2E 150 after 12 hrs, if required to get higher DFT.
  • In case of airless spray, use standard equipment having tip size of 0.59 – 1.00 mm and tip pressure 210 - 250 kg / cm².

Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner E. 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.