ShaliPrime® Zn Ph
2K Anti-Corrosive Zinc Phosphate Primer

Description

ShaliPrime® Zn Ph is a two component, polyamide cured, zinc phosphate anti-corrosive epoxy primer for metal surfaces.

ShaliPrime® Zn Ph gives excellent adhesion to steel and is compatible with a wide range of topcoats and thus forms highly efficient protective schemes for corrosive, coastal and chemical environments.

ShaliPrime® Zn Ph does not consist of any lead pigment.

Depending on customer’s requirement, we can also provide ShaliPrime® Zn Ph 60 having 60% volume solid.

Characteristics

<table>
<thead>
<tr>
<th>Colour</th>
<th>Grey</th>
<th>Pot Life, 30 °C, hr</th>
<th>Recasting time, 30 °C, hr</th>
<th>Adhesion, Mpa</th>
<th>Lead pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical Coverage*, m² / L</td>
<td>5.00 – 8.00</td>
<td>8 - 80</td>
<td>7</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>DFT*, micron</td>
<td>60 – 100</td>
<td>7</td>
<td>&gt; 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Temperature, °C</td>
<td>10 – 50</td>
<td>&gt;10 to &lt;50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drying time, 30 °C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Touch dry, minute</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Hard dry, hrs</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Overcoating, hrs</td>
<td>8 - 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Depending upon surface condition.

Application

- A high build epoxy anti-corrosive coating suitable for use as a blast primer for structural steelwork in mild to aggressive environments.
- As primer for marine and chemical environment as in
  - Pulp and paper mills,
  - Refineries,
  - Petrochemicals,
  - Fertilizer units,
  - Metal and Engineering industries.

Advantages

- Excellent anti-corrosive performance.
- Good chemical and abrasion resistance.
- Facilitates adhesion of top coat onto difficult substrates.
- Non-toxic, safer to use as compared to chromate version.

Application Methodology

➢ Surface Preparation

- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically as per the guidelines given by SSPC-SP1 to achieve Sa 2.5 grade.
- Remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface, where necessary
- Ensure that the substrate temperature is in the range of 10 °C – 50 °C.
- Ensure that the substrate temperature should be more than 3 °C above Dew Point.
• Apply ShaliRustOff on the surface where wire brush is not reachable and allow the surface to dry for 30 minutes.
• Apply ShaliPrime® Zn Ph immediately after blasting to prevent oxidation and recontamination of the steel surface.

➢ Material Preparation
• Stir entire Component A thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 300 - 400 rpm till homogeneous mix is obtained.
• Add entire Component B in Component A. Both Component A & B comes in factory pre-weighed quantity in the ratios of 4 : 1 by volume.
• After stirring, wait for 5 minutes to ensure escape of entrapped air.

➢ Application of Material
• Apply ShaliPrime® Zn Ph by brush / roller / spray. When applied by airless spray gun, ensure that the minimum working pressure of 140 kg / cm² with a spray tip size 0.43 – 0.53 mm and a spray tip angle of 65 °C.
• Ensure that the base and the hardener are at the minimum temperature of 15 °C when mixed for satisfactory spray application.
• ShaliPrime® Zn Ph may be over coated with conventional paints or two-pack epoxy paints and polyurethane. Over-coating can be done after 8 – 10 hrs; however,
• It is recommended to coat the finish paint after 12 - 24 hrs of application of primer to obtain superior performance.

Health & Safety
• The product should not come in contact with the skin and eyes or be swallowed.
• Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
• Wear suitable protective clothing, gloves and eye protection.
• In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
• In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
• If swallowed, seek medical attention immediately.
• Do not induce vomiting.

Packing
Available in 15 L container consist of Component A 12 L and Component B 3 L.

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

Shelf Life
12 months in original unopened sealed condition.