**Zinc Phosphate Epoxy Primer**

**Description & Recommended Use**

Zinc phosphate epoxy primer is a two component coating and zinc phosphate as an anti-corrosion pigment. This primer can be coated by a variety of compatible mid/top coats such as epoxy, polyurethanes….This paint has excellent corrosion protection and it is un-toxic paint the good adhesion & protective properties of this primer enable it to be used as accosting for steel structure, protector for steel & metal surfaces from humidity, power plants, storage tanks & pipes exposed to industrial environment.

**Surface Preparation**

- The surface should be free form any rust, moisture, mill scale, oil & grease
- Mechanical & chemical surface preparation methods should be performed depending on the type of contamination, the coating system environmental condition & the service life
- For ferrous & Steel use blast in accordance with sa2 or sa2 ½ & remove all the abrasive residues & dust from the surface after sandblasting.
- Apply the paint immediately followed by surface preparation

### Data Sheet / Technical Data at 25 °C

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder</td>
<td>epoxy – polyamide</td>
</tr>
<tr>
<td>Components</td>
<td>Two</td>
</tr>
<tr>
<td>Color</td>
<td>grey (according to order)</td>
</tr>
<tr>
<td>Finish</td>
<td>semi flat or flat</td>
</tr>
<tr>
<td>Density (gr/cm³) (A+B)</td>
<td>1.45±0.05</td>
</tr>
<tr>
<td>Solid Contents (by weight) (A+B)</td>
<td>75%±2%</td>
</tr>
<tr>
<td>Solid Contents (by volume) (A+B)</td>
<td>52%±3%</td>
</tr>
<tr>
<td>Dry film thickness (μ)</td>
<td>40-60</td>
</tr>
<tr>
<td>Theoretical coverage at 50 μ</td>
<td>10.4 m²/lit</td>
</tr>
<tr>
<td>Flash point</td>
<td>22 °C</td>
</tr>
<tr>
<td>Storage condition</td>
<td>Store in dry &amp; cool</td>
</tr>
</tbody>
</table>

### Technical Application Details at 25 °C

- Curing mechanism: Chemical reaction & solvent release
- Mixing ratio (by weight) (A/B): 7.1/1
- Mixing ratio (by volume) (A/B): 5/1
- Pot life: 6-8 hr
- Thinner: 239
- Dry to touch: 1.5 hr
- Dry to handle: 7 hr
- Fully cured: 1 week
- Min. time to overcoat: 24 hr
- Max. time to overcoat: 3 week
- Shelf life (Standard condition): 12 month
**Description:**

**Application Equipment**
- Conventional spray
- Airless spray
- Brush (for corners)

**Pump ratio:** 28:1  
Tip: 0.38 mm-0.53 mm  
**Nozzle pressure:** 150 bar/ 2200 psi

**Code:**

**Environmental Conditions**
- Air temperature: 10°C – 40°C  
- Surface temperature: 10°C – 40°C  
To prevent moisture condensation during application, surface temperature must be at least 3°C above the dew point.

**Application procedure**

- Flush equipment with recommended cleaner before use  
- Stir component A (base) with a Power Mixer.  
- Add hardener to base in the proper Mixing continue stirring for 5-10 Minutes.  
- After 20 – 30 minutes add Shakiba’s thinner for ready to use  
- Use Shakiba’s thinner for adjusting the viscosity.  
- The consumption depends on temperature & type of equipment & thickness paint

**Safety**

- This product is flammable it must be kept away from heat, flash & flame  
- keep container closed use with adequate ventilation & Earth  
- Prolonged & repeated contact with skin may be harmful  
- In case of eye contact flush with plenty of water and check with a medical doctor.

**Note**

- Density, solid contents theoretical coverage are dependent on color  
- Pot life, drying time is dependent on air and steel temperature, applied film thickness.  
- Never apply coatings under environmental condition.  
- Adjusting the viscosity & pressure. For better adhesion on unsteel, we offer wash primer as on under.  
- This information given 25°C temperatures and changed temperature cause to change data.  
- Don’t use different thinner; otherwise we decline all responsibilities of it.  
- For more information, please call to sale engineering expert.