Zinc Dust Epoxy Primer

Description & Recommended Use

Zinc dust epoxy primer is a two component coating. This primer is a heavy – duty coating with good adhesion hardness and reasonable resistance against water and chemicals. This product as a general purpose rust preventing primer for epoxy system, on steel and other metal surfaces. Suitable as a first coat in various paint systems. This primer has high resistance to moisture, water, industrial and marine tanks and pipe. This primer alone is not suitable for immersion in acid or alkaline solutions.

Surface Preparation

- The surface should be free from 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>Component</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</td>
</tr>
<tr>
<td>Finish</td>
<td>Flat</td>
</tr>
<tr>
<td>Density (gr/cm³) (A+B)</td>
<td>2.30 ± 0.05</td>
</tr>
<tr>
<td>Solid Contents(by weight) (A+B)</td>
<td>86% ± 2%</td>
</tr>
<tr>
<td>Solid Contents(by volume)(A+B)</td>
<td>58% ± 3%</td>
</tr>
<tr>
<td>Dry film thickness(μ)</td>
<td>50-75</td>
</tr>
<tr>
<td>Theoretical coverage at 50 μ</td>
<td>11.6 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): 14.3/1
- Mixing ratio (by volume) (A/B): 5/1
- Pot life: 7 hr
- Thinner: 239
- Dry to touch: 30 min
- Dry to handle: 8 hr
- Fully cured: 1 week
- Min. time to overcoat: 12-24 hr
- Max. time to overcoat: 3 week
- Shelf life (Standard condition): 6 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 neat, 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**

- Pot life, drying time is dependent on air and steel temperature, applied film thickness.  
- Never apply coatings under environmental condition.  
- Adjusting the viscosity & pressure.  
- This information given 25°C temperature 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. -For more information, please call to sale engineering expert.