**PV. Epoxy Zinc Primer QD**

**High performance zinc rich epoxy primer. Quick Drying and curing times with excellent cathodic protection.**

### Description

**PV. Epoxy Zinc Primer QD** is a modified zinc rich epoxy primer for anticorrosive protection of steel structures in aggressive environments with a fast handling and recoatability.

**PV. Epoxy Zinc Primer QD** is very resistant to mud cracking, and easy to apply by airless, roller or brush, and can be used over commercial abrasive blasted steel (grade Sa 2 - ISO 8501), which makes it also ideally suited for touch-up and maintenance.

### Properties

- Fast handling and overcoating times.
- Exceptional corrosion resistance.
- High Build application (150 dry microns) with no cracking.
- Low temperature cure (-5º C).
- Recoatable with any intermediate without risk of bubbles and/or pinholes (tie-coat is not required).
- Excellent adhesion.
- Easy to apply by brush, roller or spray.
- Accepts a wide variety of topcoats for severe exposures (not unsaponifiable coatings).

### Recommended uses

- Suitable for indoor and outdoor use, workshop, new construction and maintenance services in tanks, piping, ships, equipments and any other steel surfaces.
- For all environments like offshore platforms, refineries, chemical plants, etc.
- Used over new steel or shop primer.
- For touch-up and maintenance work.
- Typical systems: see technical bulletin.

### Certifications

- Certified for severe aggressive environments C5- High according to UNE-EN ISO 12944 and tested based on UNE 48315-1.2011 taking part in the next system:

  **High Durability System for corrosive environment C5**

  Primer: ZN03 - PV. Epoxy Zinc Primer QD – 80 microns
  Finish: PU30 - PV. Dur Top Coat QD – 120 microns

  (Over steel: abrasive blast to Sa 2½ (ISO 8501 or SSPC-SP10))

### Basic Characteristics

**Data at 23 ºC and 60% HR:**

- **Colour:** Grey
- **Finish:** Flat
- **Volume solids:** 64% ± 2
- **Specific weight:** 1.90 ± 0.05 g/ml
- **Recommended dry thickness:** min 50 µm
- **Theoretical coverage:** 13 m²/l (50 µm)
- **Touch dry:** 10 min
- **Dry to handle:** 30 min
- **Total dry:** 1 hour
- **Induction time:** 10 minutes
- **Pot-life:** 4 hours
- **Minimum recoating time:** 30 min
- **Maximum recoating time:** 12 months
- **COV’S:** 380 g/l (“j” type according to 2004/42/CE)
- **Dry temp. Resistance:** 150 ºC (continuous)
- **Salt spray Resistance:** Excellent
- **Impact Resistance:** Excellent
- **Humidity resistance:** Excellent

<table>
<thead>
<tr>
<th>Substrate</th>
<th>T*</th>
<th>0 ºC</th>
<th>10 ºC</th>
<th>20 ºC</th>
<th>30 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drying</td>
<td></td>
<td>9 h</td>
<td>3 h</td>
<td>1 h</td>
<td>30 min</td>
</tr>
<tr>
<td>Recoating</td>
<td></td>
<td>45’</td>
<td>35’</td>
<td>25’</td>
<td>15’</td>
</tr>
<tr>
<td>Pot-Life *</td>
<td></td>
<td>16 h</td>
<td>8 h</td>
<td>4 h</td>
<td>2 h</td>
</tr>
</tbody>
</table>

*(Referred to room temperature)*

### Corrosion protection systems with ZN03

Contact our Technical Department for: Boletín Técnico 007.Ed.01-14: Corrosion protection systems.
Technical data sheet

ZN03
Zinc primers

PV. Epoxy Zinc Primer QD

High performance zinc-rich epoxy primer. Quick Drying and curing times with excellent cathodic protection.

Surface preparation

All surfaces must be dry, clean, and free from other foreign substances. Steel: abrasive blast to minimum Sa 2; recommended Sa 2½ (ISO 8501 or SSPC-SP10) with a surface roughness equivalent to Rugotest Nº3, BN9-BN10, or Rz 35 to 65 μm profile according to Keane Tator comparator or similar, obtained with the adequate form and granularity abrasive to reach the profile required.

Application directions

PV. Epoxy Zinc Primer QD is supplied as two cans set that must be mixed for the application. Both components must be homogenized (make sure there is no pigment remaining on the bottom of the cans). Slowly add all the hardener into the base while stirring and homogenize the mixture.

Adjust viscosity, if necessary, only with PV thinners (a thinner excess may cause sagging) respecting the induction time (10 min).

It is recommended that the product temperature is above 10°C. It must be ensured that continuous ventilation and the correct EPI’s are used during the application. For indoor application, proper ventilation is recommended in order to facilitate curing and solvent evaporation.

Remarks

• For immersion conditions, it must be recoated with recommended products.
• The theoretical spreading rate can change in function of several factors: application method, surface roughness, losses during mixing and application, excessive dilution. An extra coat is recommended in welds, edges and sharp edges to enhance protection.
• Drying and overcoating times will be longer when film thickness is higher than recommended and if ventilation and air movement are restricted and temperatures are lower.

Health and safety

Safety labels of the packaging containing information necessary for proper handling. It is important to meet the requirements of the legislation. As a general rule, inhalation of solvent vapours and paint mist should be avoided, as well as contact of liquid paint with skin and eyes. When paint is applied in enclosed spaces forced ventilation should be provided, accompanied by the appropriate respiratory protection, skin and eyes, especially when applied with spray.

Complete information can be found on the safety data sheet available in www.pinturasvillada.com

Packaging and storage

Base: 8 l in cans of 10 l;
Hardener: 2 l in cans of 2.5 l.

Shelf life:
Base: 12 months (unopened);
Hardener: 6 months (unopened).

Store indoors between 15 and 35°C

After this time the use of the product is not recommended. Ask for a possible inspection in our plant.

Application conditions

• The room temperature must be between -5 ºC and 45 ºC, (free from ice).
• Substrate temperatures: to avoid condensations, the substrate must be 3ºC above the dew point, and between -5 ºC and 45 ºC.
• Relative humidity: between 45 and 90%.

PINTURAS VILLADA SKC S.A.
Carretera Villalón, 7-9. 34340. Villada (Palencia). España · Tel. +34 979 847 251 · Fax. +34 979 847 263 · central@pinturasvillada.com · www.pinvisacoatings.com

Last update: December 2014