EPOTECT PC100PH

**Technical Data**

**EPOTECT PC100PH**

**GENERIC TYPE**
Phenolic epoxy Tank Coating

**DESCRIPTION**
A highbuild rust preventive paint for internal surface of tanks based on phenolic epoxy resin with chemical resistant pigments incorporated and amine adduct hardener

**RECOMMENDED USE**
Steel structure at marine or industrial severe corrosive environment

**FEATURES**
- High build coating
- Excellent resistance to cathodic protection
- Tough and high abrasion resistance
- High resistance to cride and heavy oils, aliphatic hydrocarbon solvent and many chemicals
- Excellent resistance to water and sea water

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Colour</th>
<th>Grey, Light grey and white</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Semi-gloss</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>63 %</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry : 125 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>5.0 ml/L at 125 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Base : 22℃, Hardener : 9℃</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.46 g/cm³ (Dark Gray)</td>
</tr>
<tr>
<td>VOC</td>
<td>321 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous : 230℃, Continuous : 200℃</td>
</tr>
</tbody>
</table>

*These numerical values are subject to normal manufacturing tolerances, colours and testing variances.

**SURFACE PREPARATION**

- All surfaces to be coated should be completely clean, dry and free from contamination. Surface preparation method shall be in accordance with ISO 8504:2000.
- Remove salt and other water-soluble contaminants by fresh water.
- Remove oil and grease with suitable detergent or solvent (SSPC-SP1).
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2).

**APPLICATION**

**Application Conditions**
Ambient temperature shall be above 5℃ and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3℃ above dew point. Adequate ventilation shall be provided in confined spaces to ensure proper drying.

**Mixing**
Stir each component with power agitator well before mixing. Then power mix two components.

**Mixing ratio**
Base/Hardener = 9 / 1 by weight

**Induction Time**
15 minutes after mixing base and hardener when ambient temperature is below 10℃.

**Application Method**
Airless spray
- Thinner : Tect EP Thinner for interior (0–10% by weight)
- Nozzle pressure: Not less than 10Mpa
- Nozzle Tip : No.163–619~623
- Brush/Roller
- Thinner : Tect EP Thinner (0–5% by weight)

*Too much thinning results sagging and slower cure.*
Clean Up

Clean all the equipment with thinner immediately after use.

Pot Life

<table>
<thead>
<tr>
<th>Temperature</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time(s)</td>
<td>8</td>
<td>8</td>
<td>5</td>
</tr>
</tbody>
</table>

*Use all mixed paint within pot life.

Drying Time

<table>
<thead>
<tr>
<th>Temperature</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface dry</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Touch dry</td>
<td>16</td>
<td>12</td>
<td>8</td>
</tr>
</tbody>
</table>

*Drying time may vary depending on film thickness, ventilation, humidity, undercoat paint condition etc.

Overcoating Interval

<table>
<thead>
<tr>
<th>Temperature</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>24</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Maximum</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

*The overcoating intervals are based on overcoating with same or same type of paint.

**Typical undercoat**

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**Typical topcoat**

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**SAFETY PRECAUTIONS**

Detail information is given on Safety Data Sheet (SDS). Avoid inhalation of spray mist or vapour. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention. Since this product contains flammable solvents, keep away from sparks and open flames. Application and handling of this product should be in compliance with relevant national regulations.

**STORAGE**

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

**SHELF LIFE**

Base: 24 months from date of production, Hardener: 12 months from date of production

**GENERAL REMARKS**

- Surface preparation is blast cleaning only. Power tool cleaning surface is not suitable.
- Paint film shall be dried enough before overcoating. Insufficient drying may cause paint defect such as blistering.
- Good ventilation is required during application and drying, and avoid ignition and flame.
- Drying time before starting serviced operation requires at least 7 days(20°C) for water storage and 14 days(20°C) for organic solvents storage.

*If any inquiries, please consult Kansai Paint representative for further information.

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