Technical Data

TECT BARRIER SP (A)

Kansai Paint Protective Coatings

GENERIC TYPE
Epoxy Mastic

DESCRIPTION
Sprayable polyamide-cured epoxy mastic

RECOMMENDED USE
Steel structure at marine or industrial severe corrosive environment

FEATURES
- Over 1mm thickness film obtainable in one coat
- Semi-permanent protective coating
- Excellent resistance to water and sea water

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey, Dark Grey</td>
</tr>
<tr>
<td>Finish</td>
<td>Semi-gloss</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>94 %</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry: 1000 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>0.9 m²/L at 1000 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>61°C (Base) 61°C (Hardener)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.32 g/cm³ (Grey)</td>
</tr>
<tr>
<td>VOC</td>
<td>53 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous: 200°C, Continuous: 100°C</td>
</tr>
</tbody>
</table>

*Practical coverage vary depending on loss factors.

*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-SP-1).
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2 or SSPC SP-10) or power tool cleaning (ISO8501-1 St 3 or SSPC SP3).
- Ambient temperature shall be above 10°C and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3°C above dew point.
- Adequate ventilation shall be provided in confined spaces to ensure proper drying.

APPLICATION

Application Conditions
Ambient temperature shall be above 10°C and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3°C 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. No thinning is required.

Mixing ratio
Base/Hardener = 2/1 by weight

Induction Time
Not required

Application Method
Airless spray
- Type: Hopper type air-less pump (pump ratio is not less than 20:45:1)
- Spray gun: Air mix gun
- Primary pressure: 0.4 – 0.6 MPa
- Assist air pressure: 0.4 – 0.5 MPa

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

No thinning is required.

Detail information is given separately.

*Too much thinning results sagging and slower cure.
Clean all the equipment with thinner immediately after use.

<table>
<thead>
<tr>
<th>Clean Up</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pot Life</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 hour(s)</td>
<td>2 hour(s)</td>
<td>1 hour(s)</td>
</tr>
</tbody>
</table>

#Use all mixed paint within pot life.

<table>
<thead>
<tr>
<th>Drying Time</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface dry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touch dry</td>
<td>36 hour(s)</td>
<td>16 hour(s)</td>
<td>10 hour(s)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Overcoating Interval</th>
<th>10 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>48 hour(s)</td>
<td>24 hour(s)</td>
<td>16 hour(s)</td>
</tr>
<tr>
<td>Maximum</td>
<td>10 day(s)</td>
<td>7 day(s)</td>
<td>7 day(s)</td>
</tr>
</tbody>
</table>

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

Typical undercoat: ESCO, EPOMARINE, ALTTECT, SD ZINC 100, SD ZINC 500 etc

Typical topcoat: ESCO, EPOMARINE, RETAN UNDERCOAT E, CELATECT U/F UNDERCOAT

SAFETY PRECAUTIONS

Detail information is given on Material Safety Data Sheet (MSDS). 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 Hardener: 12 months from date of production

GENERAL REMARKS

- Surface to be coated shall be clean and all foreign materials such as abrasives, dust, oil stain, moisture and powdery materials shall be removed.
- Use low temperature curing type when ambient temperature is below 15°C for faster curing.
- Pot life would be shortened when mixed much paint under high temperature.
- When applied with cathodic protection, type of primer is limited.
- This product is epoxy resin based paint. Same as common other epoxy paint, TECT BARRIER SP will chalk and discolor with direct outdoor exposure. Top coat with durable finish is recommended to obtain longer term gloss and color retention for above water area.
- Water or moisture such as rainfall during drying stage may make the paint film surface color whitish. Once such phenomena is observed, light sanding is required to remove the surface layer before subsequent painting.

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

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