# Technical Data

## TECT BARRIER SP(A)500

**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  

**PRODUCT ID NO. (PN)**  
- Grey base: PN209  
- Dark grey base: PN210  
- Hardener: PN211  

**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>96 %</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry: 500 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>1.9 ml/L at 500 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Base: 61°C, Hardener: 61°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.32 g/cm³</td>
</tr>
<tr>
<td>VOC</td>
<td>40 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Noncontinuous: 200°C, Continuous: 100°C</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, grease with suitable detergent or solvent (SSPC-SP-1).  
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1 Sa 2 1/2 or SSPC SP-10) or power tool cleaning (ISO 8501-1 St 3 or SSPC SP-3).  

**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  
Detail information is given separately. No thinning is required.

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

<table>
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<tr>
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<th>Base: 24 months</th>
<th>Hardener: 12 months from date of production</th>
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**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. Detail information of application guidance is available separately.
- 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 discolour with direct outdoor exposure. Top coat with durable finish is recommended to obtain longer term gloss and colour retention for above water area.
- Water or moisture such as rainfall during drying stage may make the paint film surface colour 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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