**Technical Data**

**THERMOTECT 300**

**Kansai Paint Protective Coatings**

**GENERIC TYPE**

Heat Resistant Paint

**DESCRIPTION**

A heat resisting paint based on modified silicone resin

**RECOMMENDED USE**

Steel structure protection for high temperature service

**FEATURES**

- Excellent heat resistance (Up to 300°C)
- Lead and chromium free
- Good weather resistance
- Good applicability

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Colour</th>
<th>White and colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Semi-gloss</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>40 %</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry: 25 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>15.9 m/L at 25 microns DFT</td>
</tr>
<tr>
<td></td>
<td>*Practical coverage vary depending on loss factors.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>32°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.3 g/cm³</td>
</tr>
<tr>
<td>VOC</td>
<td>520 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous: 350°C, Continuous: 300°C</td>
</tr>
</tbody>
</table>

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

**APPLICATION**

Application Conditions

- 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).

Adequate ventilation shall be provided in confined spaces to ensure proper drying.

**Mixing**

Stir paint in container with power agitator well before using.

**Mixing ratio**

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**Induction Time**

Not required

**Application Method**

Airless spray
- Thinner: Enamel Thinner 200 (0-5% by weight)
- Nozzle pressure: Not less than 10Mpa
- Nozzle Tip: No. 163-415~617
- Brush/Roller
- Thinner: Enamel Thinner 200 (0-5% by weight)
  - Power mix thinner if required.

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

**Pot Life**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>5 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>5 hour(s)</td>
<td>1 hour(s)</td>
<td>1 hour(s)</td>
</tr>
</tbody>
</table>

*Use all mixed paint within pot life.

**Drying Time**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>5 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Dry</td>
<td>3 hour(s)</td>
<td>1 hour(s)</td>
<td>1 hour(s)</td>
</tr>
<tr>
<td>Touch Dry</td>
<td>5 hour(s)</td>
<td>3 hour(s)</td>
<td>3 hour(s)</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>5 °C</th>
<th>20 °C</th>
<th>30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>16 hour(s)</td>
<td>12 hour(s)</td>
<td>8 hour(s)</td>
</tr>
<tr>
<td>Maximum</td>
<td>7 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**

THERMOTECT 300 UNDERCOAT, ZINCTECT 1000, ZINCTECT 1500A

**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**

6 months from date of production

**GENERAL REMARKS**

- Use inorganic zinc rich silicate paint (ZINCTECT 1500A etc) as a primer for outdoor service.
- Although direct two coat application on to steel surface is possible for indoor service, blast cleaning to steel surface is required.
- Mist coat is required in case applying over inorganic zinc rich paint. First coat of THERMOTECT 300 shall be diluted by 10-30%(wt) and apply in two installments by wet on wet method.
- It is not suitable for strong steam, acid and alkali environment due to poor resistance.
- Finishing color may not be matched exactly due to the special paint features.

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

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