# Technical Data

## ZINCTECT 1500

### GENERIC TYPE
Zinc Rich Paint

### DESCRIPTION
Inorganic zinc rich paint based on alkyl silicate resin and zinc powder

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

### FEATURES
- Excellent anti-corrosive performance
- Excellent water, sea water, oil and organic solvent resistance
- Excellent heat resistance up to 400°C continuously.
- High build coating and 75μ per coat is achieved.
- Conform to JIS K 5553 Type 1

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Colour</th>
<th>Grey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Matt</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>62%</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry : 75 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>8.3 ml/L at 75 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>20°C (Liquid)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.88 g/cm³</td>
</tr>
<tr>
<td>VOC</td>
<td>340 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous : 500°C, Continuous : 400°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 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).
  - Ambient temperature shall be above 5°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 5°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.

#### Mixing ratio
Liquid/Powder = 20/80 (by weight)

#### Induction Time
Not required

#### Application Method
Airless spray
- Thinner : SD Zinc 1500 Thinner (0-10% by weight)
- Nozzle pressure: Not less than 6Mpa
- Nozzle Tip : No.163-519~621
- Brush/Roller
  - Thinner : SD Zinc 1500 Thinner (0-5% by weight)
  - SD Zinc 1500 Thinner for Slow Dry can be used to prevent dry dust coat under high temperature. 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>Time</td>
<td>8 hour(s)</td>
<td>6 hour(s)</td>
<td>6 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>1 hour(s)</td>
<td>30 minute(s)</td>
<td>30 minute(s)</td>
</tr>
<tr>
<td>Touch dry</td>
<td>6 hour(s)</td>
<td>3 hour(s)</td>
<td>1 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>48 hour(s)</td>
<td>48 hour(s)</td>
<td>48 hour(s)</td>
</tr>
<tr>
<td>Maximum</td>
<td>- month(s)</td>
<td>- month(s)</td>
<td>- month(s)</td>
</tr>
</tbody>
</table>

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

Typical undercoat

SD ZINC 1000, SD ZINC 1000HA(S)

Typical topcoat

EPOTECT HB, EPOTECT HB(M), EPOTECT MIO, etc.

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

6 months from date of production

GENERAL REMARKS

- This product is moisture sensitive and store in cool and dry indoor area.
- Mixed paint shall be screened with 60–100 mesh and remove foreign material and lump before application.
- Zinc powder in mixed paint tends to sink due to heavy specific gravity. Stir slowly during application to prevent zinc powder settling.
- One coat spray application is standard method. In case of brush application, two coats are required. Coating interval between the two coats shall be 30 minutes to two hours.
- In case applying over ZINCTECT 1000, coating interval shall be more than 7 days and secondary surface preparation is required.
- This product is moisture cure type and although its surface can dry by solvent evaporation, true curing progress by chemical reaction with moisture gradually. In order to accelerate the curing, sprinkle water to surrounding environment.
- Sagging, cracking or peeling may occur when over thickness by one coat 150-200μ.

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

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