**Technical Data**

**AlesChar U**

**Epoxy intumescent**

**DESCRIPTION**
High-build, two component solvent free material and designed as intumescent to provide fire protection

**RECOMMENDED USE**
For the protection of steel structure, pipework and vessels

**FEATURES**
- High-build and excellent fire protection
- Very good resistance to mechanical abrasion

Product ID No.(PN) Base: PN401, Hardener: PN402

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Finish</td>
<td>Matt</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>100%</td>
</tr>
<tr>
<td>Typical Thickness Dry</td>
<td>5000 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>0.2 m²/L at 5000 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>220°C(Base) 143°C(Hardener)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.32 g/cm³</td>
</tr>
<tr>
<td>VOC</td>
<td>0 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous: 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 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 Base in container well before mix components. And add Hardener into Base gradually and power mix.

**Mixing ratio**
Base/Hardener = 2/1 (by weight)

**Induction Time**
Not required

**Application Method**
Plural component airless spray or single feed airless spray
- Thinner : Tect Ep Thinner (0-5% by weight)
- Nozzle pressure: Not less than 24MPa
- Nozzle Tip : No.163-529-541
- Trowel/Brush/Roller
- Thinner : Tect Ep Thinner (0-5% by weight)
*Mineral spirit solvent can be used to smooth or finish up coating surface

*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>15 °C</th>
<th>25 °C</th>
<th>35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>120 minute(s)</td>
<td>90 minute(s)</td>
<td>60 minute(s)</td>
</tr>
</tbody>
</table>

*Use all mixed paint within pot life.

Drying Time
<table>
<thead>
<tr>
<th>Temperature</th>
<th>15 °C</th>
<th>25 °C</th>
<th>35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface dry</td>
<td>8 hour(s)</td>
<td>5 hour(s)</td>
<td>2 hour(s)</td>
</tr>
<tr>
<td>Touch dry</td>
<td>18 hour(s)</td>
<td>16 hour(s)</td>
<td>6 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>15 °C</th>
<th>25 °C</th>
<th>35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>24 hour(s)</td>
<td>18 hour(s)</td>
<td>6 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
ESCO

Typical topcoat
RETANTECT 6000(M)

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 condition under temperature range of 1 to 30°C. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

SHELF LIFE
12 months from date of production

GENERAL REMARKS

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

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