HEMPATHANE® TOPCOAT 55210

BASE 55219 with CURING AGENT 95370

Description:
HEMPATHANE TOPCOAT 55210 is a two-component, semi-gloss acrylic polyurethane coating with good gloss and colour retention.

Recommended use:
As a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where light-fastness and gloss retention are required.
Minimum temperature for curing is -10°C/14°F.

Service temperatures:
Maximum, dry exposure only: 120°C/248°F (see REMARKS overleaf).

Certificates/Approvals:
Approved as a low flame spread material by Danish, French, Spanish and Singaporian authorities according to IMO resolution MSC 61 (67).
Has a Danish, French, Spanish, Singaporian and Malaysian EC-type Examination Certificate.
Please see REMARKS overleaf.

Availability:
Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colours/Shade nos.</td>
<td>White/10000* Blue/30840*</td>
</tr>
<tr>
<td>Volume solids, %</td>
<td>51 ± 1</td>
</tr>
<tr>
<td>Theoretical spreading rate</td>
<td>10.2 m²/litre - 50 micron</td>
</tr>
<tr>
<td>Flash point</td>
<td>33°C/92°F</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.2 kg/litre - 10.0 lbs/US gallon</td>
</tr>
<tr>
<td>Surface dry</td>
<td>2½ (approx.) hrs at 20°C/68°F (ISO 1517)</td>
</tr>
<tr>
<td>Dry to touch</td>
<td>8 (approx.) hrs at 20°C/68°F (ISO 1517)</td>
</tr>
<tr>
<td>Fully cured</td>
<td>7 days at 20°C/68°F</td>
</tr>
<tr>
<td>V.O.C.</td>
<td>450 g/litre - 3.7 lbs/US gallon</td>
</tr>
</tbody>
</table>

*Other shades according to assortment list.

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.

APPLICATION DETAILS:

Mixing ratio for 55210: Base 55219 : Curing agent 95370 7 : 1 by volume

Application method: Airless spray Brush

Thinner (max. vol.): See REMARKS overleaf 08080 (5%)

Pot life: 4 hours (20°C/68°F)

Nozzle orifice: .017"-.019"

Nozzle pressure: 150 bar/2200 psi (Airless spray data are indicative and subject to adjustment)

Cleaning of tools: THINNER 08080 or 08510

Indicated film thickness, dry: 50 micron/2 mils (See REMARKS overleaf)

Indicated film thickness, wet: 100 micron/4 mils

Recoat interval, min: See REMARKS overleaf

Recoat interval, max: See REMARKS overleaf

Safety:
Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.
HEMPATHANE TOPCOAT 55210

APPLICATION

The surface must be completely clean and dry at the time of application, and its temperature must be above the dew point to avoid condensation. Minimum temperature for curing is -10°C/14°F. At the freezing point and below, be aware of the risk of ice on the surface which will hinder the adhesion. High humidity and/or condensation during application and the following 16 hours (20°C/68°F) may adversely affect the film formation.

In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT:

HEMPADUR 45141/45143, HEMPADUR MASTIC 45880/45881 or according to specification.

SUBSEQUENT COAT:

None.

REMARKS:

Certificate has been issued under the former quality number 5521.

Colours:

Certain lead-free red and yellow colours may discolour when exposed to chlorine-containing atmosphere.

Leaded colours may become discoloured when exposed to sulphide-containing atmosphere.

To obtain full opacity, an extra coat may be necessary, especially for certain lead-free colours in eg red, orange, yellow and green.

Service temperatures:

May be specified in another film thickness than indicated depending on purpose and area of use.

This will alter spreading rate and may influence drying time and recoating interval. Normal range is 40-75 micron/1.6-3 mils.

Thinning:

The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. THINNER 08080 is recommended in general. THINNER 08510 may be used alternatively depending on local conditions.

Airless spray: 5-15% thinning is recommended. Under extreme conditions up to more than 20% may be necessary to obtain satisfactory film formation.

The best result is obtained by applying a mist coat of HEMPATHANE ENAMEL 55210 at first, and then 2-15 minutes later apply to full film thickness giving a uniform film formation. Do not exaggerate the film thickness.

Electrostatic spray: 10% thinning with specified thinner is recommended. Please contact HEMPEL for further advice.

Recoating and drying/curing time:

<table>
<thead>
<tr>
<th>Physical data versus temperatures:</th>
<th>-10°C/14°F</th>
<th>0°C/32°F</th>
<th>10°C/50°F</th>
<th>20°C/68°F</th>
<th>30°C/86°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch, approx.</td>
<td>3 days</td>
<td>36 hours</td>
<td>16 hours</td>
<td>8 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Resist condensing humidity/ light showers after*:</td>
<td>(7 days)</td>
<td>3 days</td>
<td>32 hours</td>
<td>16 hours</td>
<td>12 hours</td>
</tr>
<tr>
<td>Fully cured, 70% RH</td>
<td>(2 months)</td>
<td>32 days</td>
<td>14 days</td>
<td>7 days</td>
<td>5 days</td>
</tr>
<tr>
<td>Recoating interval, recoating 55210 with 55210</td>
<td>Min 6 days</td>
<td>3 days</td>
<td>32 hours</td>
<td>16 hours</td>
<td>12 hours</td>
</tr>
<tr>
<td>Max None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

*Faster drying and curing may be obtained by using an “accelerator” - consult HEMPEL for further advice.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, and grease has to be removed, e.g. with suitable detergent. Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

Notes:

CURING AGENT 95370 is sensitive to moisture. Store in a dry place and keep the can tightly closed until use. Open curing agent cans with caution as overpressure might exist. Even small traces of water in the mixed paint will reduce the pot-life and result in film defects.

HEMPATHANE TOPCOAT 55210 is for professional use only.

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