TEMADUR 50

DESCRIPTION
A two component, semigloss polyurethane paint, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES
♦ Excellent weathering and abrasion resistance.
♦ Recommended as a semigloss topcoat for epoxy and polyurethane systems exposed to weathering and/or chemical stress.
♦ A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.
♦ Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment.
♦ The product has MED (Marine Equipment Directive) certificate no 0809-MED-0397 and is thus accepted for painting surfaces inside the ships.

TECHNICAL DATA
Volume solids 56 ± 2 %. (ISO 3233)
Weight solids 70 ± 2 %.
Specific gravity 1.3 ± 0.1 kg / l (mixed)
Mixing ratio and product codes Base 5 parts by volume 506-series
Hardener 1 part by volume 008 7590
Pot life 4 hours (23 ºC)

Recommended film thicknesses and theoretical coverage

<table>
<thead>
<tr>
<th>Recommended film thicknesses</th>
<th>Theoretical coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>dry</td>
<td>wet</td>
</tr>
<tr>
<td>40 µm</td>
<td>70 µm</td>
</tr>
<tr>
<td>14.0 m²/l</td>
<td></td>
</tr>
<tr>
<td>60 µm</td>
<td>110 µm</td>
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<tr>
<td>9.3 m²/l</td>
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</tbody>
</table>

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Drying times

<table>
<thead>
<tr>
<th>DFT 50 µm</th>
<th>+ 5 ºC</th>
<th>+ 10 ºC</th>
<th>+ 23 ºC</th>
<th>+ 35 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust dry, after</td>
<td>45 min</td>
<td>30 min</td>
<td>15 min</td>
<td>10 min</td>
</tr>
<tr>
<td>Touch dry, after</td>
<td>8 h</td>
<td>6 h</td>
<td>4 h</td>
<td>2½ h</td>
</tr>
<tr>
<td>Recoatable, after</td>
<td>No limitations</td>
<td></td>
<td></td>
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</tbody>
</table>

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Finish
Semigloss.

Colours
RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards.
TEMASPEED tinting.
TEMPADUR 50

APPLICATION DETAILS

Surface preparation

Primed surfaces: Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO 12944-4)

Primer

TEMACOAT GPL-S PRIMER, TEMACOAT GF PRIMER, TEMACOAT HB PRIMER, TEMACOAT PM PRIMER, TEMACOAT GPL-S MIO, TEMACOAT SPA, TEMACOAT RM 40, TEMAMASTIC PM 100, TEMABOND, TEMPADUR 20, TEMPADUR PRIMER, TEMAPRIME GF, FONTECOAT EP PRIMER and FONTECRYL 10.

Finish

TEMPADUR and TEMATHANE.

Application conditions

All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below +5 °C during application or drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3 °C above the dew point.

Mixing components

First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use Temaspeed Squirrel Mixer for mixing.

Application

By airless or conventional spray or by brush. In order to obtain an even, non-porous finish at the airless spray application the viscosity should be 30 - 60 s DIN4. Depending on the temperature of the components (base, hardener, thinner) and the required viscosity the paint should be thinned 10 - 30 %. Airless spray nozzle tip 0.011" - 0.017" and nozzle pressure 120 - 160 bar. Spray angle shall be chosen according to the shape of the object.

At brush application the paint should be thinned according to the circumstances.

Thinner

Thinner 1048 or Thinner 1067. Thinner 1061 is also suitable for conventional spraying.

Cleaning of equipment

Thinner 1048, 1067 or 1061.

VOC

The Volatile Organic Compounds amount is 420 g/litre of paint mixture. VOC content of the paint mixture (thinned 30 % by volume) is 530 g/l.

HEALTH AND SAFETY

Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.

A health and safety data sheet is available on request from Tikkurila Coatings Oy.