Temathane PC 80

DESCRIPTION
A high-solids two-component, glossy polyurethane paint, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES
• Excellent choice when a high-solids topcoat with extremely good gloss and color retention is required
• Particularly suitable for harsh environments. The topcoat helps extending the service life of the paint system
• Due to polyurethane resin the paint has an excellent weather and abrasion resistance. It forms easy-to-clean and non-chalking topcoat with good gloss and color retention
• Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment

TECHNICAL DATA

Volume solids 66±2% (ISO 3233)
Weight solids 77±2%
Specific gravity 1.3±0.1 kg / l (mixed)
Mixing ratio Base 5 parts by volume Temathane PC 80
Hardener 1 part by volume 008 7690 or 008 7590
Pot life (+23°C) 1½ hours

<table>
<thead>
<tr>
<th>Recommended film thicknesses and theoretical coverage</th>
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</thead>
<tbody>
<tr>
<td>Recommended film thicknesses</td>
</tr>
<tr>
<td>wet</td>
</tr>
<tr>
<td>120µm</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 time

<table>
<thead>
<tr>
<th>DFT 80µm</th>
<th>+5°C</th>
<th>+10°C</th>
<th>+23°C</th>
<th>+35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust dry, after</td>
<td>2h</td>
<td>1h 15min</td>
<td>1h</td>
<td>20min</td>
</tr>
<tr>
<td>Touch dry, after</td>
<td>10h</td>
<td>8h</td>
<td>6h</td>
<td>3½h</td>
</tr>
<tr>
<td>Recoateable, after</td>
<td>No limitations.</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.

Gloss
Gloss.

Color shades
RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards.
Temaspeed Premium tinting
Temathane PC 80
APPLICATION INSTRUCTIONS

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)

Recommended primers
Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat GF Primer, Temacoat MIO, Temacoat Primer, Temacoat RM 40, Temacoat SPA MIO, Temacoat SPA Primer, Temabond ST 200, Temabond ST 300, Temadur 20, Temadur Primer, Temaprime GF, Temacoat HS-F Primer, Temazinc 77.

Recommended topcoats
Temathane PC 80, Temadur Clear.

Application conditions
All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +5ºC during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying.

Mixing components
First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.

Application
In order to obtain an even, non-porous finish, spray a misty coat: first a thin layer, then let the solvents evaporate for 5–30 minutes and then apply the full coat.

For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 5–15%. Recommended nozzle tip is 0.011”–0.013” and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object.

For conventional spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 5–15%. Recommended nozzle tip is 1.6–1.8 mm and pressure 3–4 bar.

Thinners
Thinner 1048, Thinner 1067, Thinner 1061
Thinner 1061 is also suitable for conventional spraying.

Cleaning of equipment
Thinner 1048, 1067 or 1061.

VOC
The Volatile Organic Compounds amount is 320 g/litre of paint mixture

VOC content of the paint mixture (thinned 15% by volume) is 400 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 Oyj.

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The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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