Temaline EPL 100

DESCRIPTION
A two-component chemical resistant epoxy phenolic paint.

PRODUCT FEATURES AND RECOMMENDED USES
• High temperature resistant. Withstands dry heat up to +150°C, but discolouration possible. Suitable for immersion of hot water between +65°C–90°C
• Due to binder type has especially good resistance towards many chemicals including light crude oil distillates like gasoline, diesel and kerosene. Resistance to fuels and chemicals are listed in the separate chemical resistance table
• Resistant to dilute solutions of non-oxidizing acids, alkali and salts in immersion
• As a CE marked product Temaline EPL 100 is suitable for concrete surfaces

TECHNICAL DATA

Volume solids 72±2% (ISO 3233)
Weight solids 83±2%
Specific gravity 1.45 kg/litre (mixed).
Mixing ratio Base 5 parts by volume Temaline EPL 100
Hardener 1 part by volume 008 5612
Pot life (+23°C) 1 hour

Recommended film thicknesses and theoretical coverage

<table>
<thead>
<tr>
<th>Recommended film thicknesses</th>
<th>Theoretical coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>wet</td>
<td>dry</td>
</tr>
<tr>
<td>130µm</td>
<td>100µm</td>
</tr>
<tr>
<td>200µm</td>
<td>150µm</td>
</tr>
</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>Drying time</th>
<th>+10°C</th>
<th>+23°C</th>
<th>+35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT 125µm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dust dry, after</td>
<td>12h</td>
<td>4h</td>
<td>2h</td>
</tr>
<tr>
<td>Touch dry, after</td>
<td>24h</td>
<td>7h</td>
<td>5h</td>
</tr>
<tr>
<td>Recoatable, after</td>
<td>30h</td>
<td>10h</td>
<td>8h</td>
</tr>
<tr>
<td>Recoatable, max. without sanding</td>
<td>3d</td>
<td>48h</td>
<td>24h</td>
</tr>
</tbody>
</table>

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

Gloss
Semi-gloss.

Color shades
White (app. RAL 9010), beige (RAL1015) and light grey (RAL 7032 and 7044)
Temaline EPL 100

APPLICATION INSTRUCTIONS

Surface preparation
Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)

Steel surfaces: Blast clean to grade Sa2½ (ISO 8501-1). The surface profile must be minimum medium (G). (ISO 8503-2)

Recommended primers
Temaline EPL 100.

Recommended topcoats
Temaline EPL 100.

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 +10°C 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
For airless spraying, the product is thinned approximately 0–5%. Recommended nozzle tip is 0.015”–0.019” and 160–200 bar. Spray angle shall be chosen according to the shape of the object.

Thinners
Thinner 1031

Cleaning of equipment
Thinner 1031.

VOC
The Volatile Organic Compounds amount is 240 g/litre of paint mixture.

VOC content of the paint mixture thinned 5% by volume is 270 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.

For industrial and professional use only.

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.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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www.tikkurila.com
The European harmonized product standard EN 1504-2:2004 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the tables 1d, 1f and 1g in the appendix ZA.

<table>
<thead>
<tr>
<th>Product for protection and repair of concrete structures – Coating.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permeability to CO2</td>
</tr>
<tr>
<td>Impact resistance</td>
</tr>
<tr>
<td>Capillary absorption and permeability to water</td>
</tr>
<tr>
<td>Abrasion resistance</td>
</tr>
<tr>
<td>Reaction to fire</td>
</tr>
<tr>
<td>Adhesion strength by pull off test</td>
</tr>
<tr>
<td>Release of dangerous substances</td>
</tr>
<tr>
<td>Permeability to water vapour</td>
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<tr>
<td>Resistance to severe chemical attack</td>
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</tbody>
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