

Temaline EPL 100

DESCRIPTION

A two-component chemical resistant epoxy phenolic paint.

PRODUCT FEATURES AND RECOMMENDED USES

- High temperature resistant. Withstands continuous dry heat up to +200°C. Discoloration possible. Suitable for immersion of hot water between +65°C–90°C.
- Due to its binder type, Temaline EPL 100 has especially good resistance against many chemicals including light crude oil distillates, such as 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.
- Resistant to grey/waste water when applied 2x150µm.
- 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

Recommended film thicknesses		Theoretical coverage
wet	dry	
130µm	100µm	7.7 m²/l
200µm	150µm	5.0 m²/l

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

Note! Maximum dry film thickness is 1000 µm. The painting work should be performed and supervised according to 12944-7 if not otherwise stated in the respective technical data sheet. Excessive film thickness may result e.g. in cracking, sagging, prolonged drying time, soft film, less chemical resistance, gloss deviation, adhesion and intercoat functionality. In case the product is used otherwise than stated in the standard a written approval from Tikkurila is required.

Drying time

DFT 125µm	+10°C	+23°C	+35°C
Dust dry, after	12h	4h	2h
Touch dry, after	24h	7h	5h
Recoatible, after	30h	10h	8h
Recoatible, max. without sanding	3d	48h	24h
Fully cured, after	14d	7d	3d

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



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Gloss

Gloss.

Color shades

White (app. RAL 9010), beige (RAL1015) light grey (RAL 7032 and 7044) and a limited range of other colors on request.

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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) Concrete surfaces: The surface must be dry and at least 4 weeks old. The relative humidity of the concrete should not exceed 97%. Remove any splashes and unevennesses by grinding. Remove laitance and form oil from concrete castings by sanding or blast cleaning. Any cracks, crevices and voids must be repaired with Colofill.
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. VOC 2004/42/EC (cat A/j) 500 g/l (2010)

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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EN 1504-2:2004

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.

CE	
0809	
Tikkurila Oyj Heidehofintie 2 FI-01300 Vantaa	
17	
0809-CPD-0773	
TIK-025V-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	$s_D > 50 \text{ m}$
Impact resistance	Class I: $\geq 4 \text{ Nm}$
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	F(NPD)
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class I, $s_D < 5 \text{ m}$
Resistance to severe chemical attack	Class II