

Temacoat GPL

DESCRIPTION

A two-component, amine adduct cured mar and chemical resistant epoxy topcoat.

PRODUCT FEATURES AND RECOMMENDED USES

- Used especially as a finishing coat especially for objects exposed to heavy abrasion and chemical attack. Resists +150°C dry heat and chemically active gases and dust.
- Due to CE marking also suitable for concrete surfaces in process industries. Withstands well immersion in water, oil and dilute solutions of non-oxidizing acids, alkalis and salts.
- Available in thousands of colors. Resistance to abrasion and chemicals makes the surface retain its color for a longer time.
- Withstands +60°C in immersion.
- Resists only temporary splashes of oxidizing acids and bleaching solutions.
- Withstands immersion in mineral/vegetable/animal fats and oils.
- Recommended for bridges, tanks and different types of steelwork and equipment in the wood processing and chemical industries, such as tubular bridges, conveyors, paper machines etc.



TECHNICAL DATA

Volume solids	55±2% (ISO 3233)		
Weight solids	69±2%		
Specific gravity	1.3–1.4 kg / l (mixed) depending on colour.		
Mixing ratio	Base	3 parts by volume	Temacoat GPL
	Hardener	1 part by volume	008 7580
Pot life (+23°C)	5 hours		

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
90µm	50µm	11.0 m²/l
185µm	100µm	5.5 m²/l

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

Drying time

DFT 60µm	+10°C	+23°C	+35°C
Dust dry, after	3h	2h	1h
Touch dry, after	10h	5h	2h
Recoatible, after	10h	4h	2h
Recoatible in immersion, after	32h	16h	8h

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

Gloss

Gloss.



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Color shades

RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. Temaspeed Premium tinting

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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) 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 a mixture of Temafloor 200 and fine dry quartz sand.
Recommended primers	Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat SPA Primer, Temabond ST 200, Temabond ST 300, Temacoat Primer.
Recommended topcoats	Temacoat GPL.
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. Note! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.
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 0–10%. Recommended nozzle tip is 0.011"–0.017" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object. For brush application product should be thinned according to the circumstances.
Thinners	Thinner 1031
Cleaning of equipment	Thinner 1031
VOC	The Volatile Organic Compounds amount is 450 g/litre of paint mixture. VOC content of the paint mixture (thinned 10% by volume) is 490 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.



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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.

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	
14	
0809-CPD-0773	
TIK-0170-5001	
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	$w < 0,1 \text{ kg/m}^2 \cdot h^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	B _f -s1
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class II, $5 \text{ m} < s_D < 50 \text{ m}$
Resistance to severe chemical attack	Class II