

Temathane PC 50

DESCRIPTION

A high-solids two-component, semi-gloss 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.
- Prequalified in the NORSOK system 1 and therefore an excellent choice for the most demanding application areas such as offshore environments, refineries, power plants and bridges.
- Excellent weather and abrasion resistance. It forms easy-to-clean and non-chalking topcoat with good gloss and color retention.
- Used as a semi-gloss topcoat for epoxy systems exposed to weathering.
- Recommended for painting of storage tank exteriors, steel buildings and other steelwork.



TECHNICAL DATA

Volume solids 65±2% (mixture, ISO 3233)

Weight solids 76±2% (mixture)

Specific gravity 1.3±0.1 kg/l (mixture)

Mixing ratio
 Base 5 parts by volume Temathane PC 50
 Hardener 1 part by volume 008 7690 or 008 7590

Pot life (+23°C) 1½ hours

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
65µm	40µm	16.2 m²/l
95µm	60µm	10.8 m²/l
125µm	80µm	8.1 m²/l

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

Note! 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 80µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	2h	1h 15min	1h	20min
Touch dry, after	10h	8h	6h	3½h
Recoatible, after	No limitations.			

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



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Gloss Semi-gloss.

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)
Recommended primers	Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat GF Primer, Temacoat HS-F Primer, Temacoat RM 40, Temacoat Primer, Temacoat SPA Primer, Temabond ST 200, Temabond ST 300, Temadur 10, Temadur 20, Temaprime GF.
Recommended topcoats	Temathane PC 50, 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 +5°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	<p>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.</p> <p>For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 0–15%. 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.</p> <p>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.</p> <p>For brush application product should be thinned according to the circumstances.</p>
Thinners	<p>Thinner 1048, Thinner 1067, Thinner 1061</p> <p>Thinner 1061 is also suitable for conventional spraying.</p>
Cleaning of equipment	Thinner 1048, Thinner 1067, Thinner 1061
VOC	<p>The Volatile Organic Compounds amount (ISO 11890) is 330 g/litre of paint mixture. VOC content of the paint mixture (thinned 15 % by volume) is 410 g/l.</p> <p>VOC 2004/42/EC (cat A/j) 500 g/l (2010)</p>
HEALTH AND SAFETY	<p>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.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p> <p>For industrial and professional use only.</p>



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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.