



# Temathane 50

## DESCRIPTION

A two-component, semi-gloss polyurethane paint, hardener aliphatic isocyanate.

## PRODUCT FEATURES AND RECOMMENDED USES

- Good solution when a cost-efficient solution with good gloss and color retention is required.
- Dries rapidly and is easy to apply.
- Recommended to be used as a semigloss topcoat for epoxy and polyurethane systems exposed to weathering.
- A durable, easy to clean and non-chalking topcoat.
- Excellent weathering and abrasion resistance.
- Recommended for painting of outside of storage tanks, steel buildings and other steelwork.

## TECHNICAL DATA

**Volume solids** 55±2% (ISO 3233)

**Weight solids** 67±2%

**Specific gravity** 1.2±0.1 kg / l (mixed)

**Mixing ratio**  
Base 9 parts by volume Temathane 50  
Hardener 1 part by volume 008 7620

**Pot life (+23°C)** 4 hours

## Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
75µm	40µm	13.7 m <sup>2</sup> /l
110µm	60µm	9.2 m <sup>2</sup> /l

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

## Drying time

DFT 50µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	45min	30min	15min	10min
Touch dry, after	8h	6h	4h	2½h
Recoatible, after	No limitations.			

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

## Gloss

Semi-gloss.

## Color shades

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

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	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)
<b>Recommended primers</b>	Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat RM 40, Temacoat Primer, Temacoat SPA Primer, Temabond ST 200, Temabond ST 300, Temabond WG 200, Temadur 20.
<b>Recommended topcoats</b>	Temadur 50, Temadur 90, Temadur Clear, Temadur HB 50, Temadur HB 80, Temadur HS 90, Temadur SC-F 20, Temadur SC-F 50, Temadur SC-F 80, Temathane 50, Temathane 90, Temathane PC 50, Temathane PC 80.
<b>Application conditions</b>	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.
<b>Mixing components</b>	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.
<b>Application</b>	<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 10–15% to the viscosity 30–60s (DIN4). Recommended nozzle tip is 0.011"–0.015" 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 10–15% to the viscosity 20–25s (DIN4). 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>
<b>Thinners</b>	<p>Thinner 1048, Thinner 1067, Thinner 1061</p> <p>Thinner 1061 is also suitable for conventional spraying.</p>
<b>Cleaning of equipment</b>	Thinner 1048, Thinner 1067, Thinner 1061
<b>VOC</b>	The Volatile Organic Compounds amount (ISO 11890) is 425 g/litre of paint mixture. VOC content of the paint mixture (thinned 15% by volume) is 490 g/l.
<b>HEALTH AND SAFETY</b>	<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>

**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.