



# Temadur 50

## DESCRIPTION

A two-component, durable and non-chalking semi-gloss polyurethane paint, hardener aliphatic isocyanate.

## PRODUCT FEATURES AND RECOMMENDED USES

- A time-proven, easy-to-use general purpose topcoat for constructional steelwork and machinery. The paint has a wide spectrum of colors, including metallic effects
- Forms a durable, easy-to-clean and non-chalking topcoat with good gloss and colour retention. The paint has also been approved for use on top of intumescent coatings
- The product has MED (Marine Equipment Directive) certificate no EUFI29-19002495-MED and is thus accepted for painting surfaces inside the ships.
- Excellent weathering and abrasion resistance
- To be used as a semi-gloss topcoat for epoxy and polyurethane systems exposed to weathering and/or chemical stress
- Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment

## TECHNICAL DATA

**Volume solids** 56±2% (ISO 3233)

**Weight solids** 70±2%

**Specific gravity** 1.3±0.1 kg / l (mixed)

**Mixing ratio** Base 5 parts by volume Temadur 50  
Hardener 1 part by volume 008 7590

**Pot life (+23°C)** 4 hours

## Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
70µm	40µm	14.0 m <sup>2</sup> /l
110µm	60µm	9.3 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 50 µm	+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 HS-F Primer, Temacoat Primer, Temacoat SPA Primer, Temacoat SPA 50, Temacoat RM 40, Temabond ST 200, Temabond ST 300, Fontecoat EP 50, Temadur 20.
<b>Recommended topcoats</b>	Temathane PC 80, Temadur 50, Temadur 90, Temadur Clear, Temathane 90, Temathane PC 50.
<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 at airless spraying the viscosity should be 30–60 s DIN4.</p> <p>For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) and the required viscosity approximately 10–23%. 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.</p> <p>For conventional spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) and the required viscosity the paint approximately 10–23%. Recommended nozzle tip is 1.4–1.8 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 (fast) is also suitable for conventional spraying.</p>
<b>Cleaning of equipment</b>	Thinner 1048, 1067 or 1061.
<b>VOC</b>	The Volatile Organic Compounds amount is 420 g/litre of paint mixture. VOC content of the paint mixture (thinned 23% by volume) is 495 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> <p><b>For industrial and professional use only.</b></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.