

## Temadur 50

### DESCRIPTION

A two component, semigloss polyurethane paint, hardener aliphatic isocyanate.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Excellent weathering and abrasion resistance.
- ◆ Recommended as a semigloss topcoat for epoxy and polyurethane systems exposed to weathering and/or chemical stress.
- ◆ A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.
- ◆ Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment.
- ◆ The product has MED (Marine Equipment Directive) certificate no VTT-C-4033-15-09 and is thus accepted for painting surfaces inside the ships.

### TECHNICAL DATA

**Volume solids** 56 ± 2 %. (ISO 3233)

**Weight solids** 70 ± 2 %.

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

**Mixing ratio and product codes**

Base	5 parts by volume	506-series
Hardener	1 part by volume	008 7590

**Pot life** 4 hours (23 °C)

### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
40 µm	70 µm	14.0 m <sup>2</sup> /l
60 µm	110 µm	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 times

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

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

**Finish** Semigloss.

**Colours** RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. TEMASPEED tinting.

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## APPLICATION DETAILS

<b>Surface preparation</b>	<u>Primed surfaces:</u> 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>Primer</b>	Temacoat GPL-S Primer, Temacoat GF Primer, Temacoat HB Primer, Temacoat PM Primer, Temacoat GPL-S MIO, Temacoat SPA, Temacoat RM 40, Temamastic PM 100, Temabond, Temadur 20, Temadur Primer, Temaprime GF, Fontecoat EP Primer and Fontecryl 10.
<b>Finish</b>	Temadur and Temathane.
<b>Application conditions</b>	All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below + 5°C during application or drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3°C above the dew point.
<b>Mixing components</b>	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use Temaspeed Squirrel Mixer for mixing.
<b>Application</b>	By airless or conventional spray or by brush. In order to obtain an even, non-porous finish at the airless spray application the viscosity should be 30-60 s DIN4. Depending on the temperature of the components (base, hardener, thinner) and the required viscosity the paint should be thinned 10-23%. Airless spray nozzle tip 0.011"-0.017" and nozzle pressure 120-160 bar. Spray angle shall be chosen according to the shape of the object. At brush application the paint should be thinned according to the circumstances.
<b>Thinner</b>	Thinner 1048 or Thinner 1067. Thinner 1061 (fast) is also suitable for conventional spraying.
<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. Only for industrial use.
<b>HEALTH AND SAFETY</b>	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.

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