



Temadur 50 - Polyurethane paint



DESCRIPTION	A two-component, semi-gloss polyurethane paint, hardener aliphatic isocyanate.
PRODUCT FEATURES	Recommended as a semigloss topcoat for epoxy and polyurethane systems exposed to weathering and/or chemical stress.
Recommended uses	Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment.

TECHNICAL DATA

Features Excellent weathering and abrasion resistance. A durable, easy to clean and non-chalking topcoat with good gloss and colour retention. • The product has MED (Marine Equipment Directive) certificate no VTT-C-11167-15-14 and is thus accepted for painting surfaces inside the ships.

Colour Cards RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. TEMASPEED tinting.

Gloss groups Semi-gloss

Coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
40 µm	70 µm	14.0 m ² /l
60 µm	110 µm	9.3 m ² /l

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

Thinner 1048, 1067 and 1061

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

Application method By airless or conventional spray or by brush.

Pot-life (+23°C) 4 hours

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
Recoatible, after	No limitations.			

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

Solids volume 56 ± 2 % volume % (ISO 3233)
70 ± 2 % weight %

Density 1.3 ± 0.1 kg / l (mixed)

Product code	506-series
MED Certificate	VTT C 11167 15 14 Temadur20 50

APPLICATION DETAILS

Application conditions	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.
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)
Priming	Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat SPA, Temacoat RM 40, Temabond, Temadur 20 and Fontecoat EP 50.
Finishing	Temadur and Temathane.
Painting	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.
Mixing of components	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use mechanical mixer for mixing.
Cleaning of tools	Thinner 1048, 1067 or 1061.
EU VOC 2004/42/EC-limit value	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.

HEALTH AND SAFETY LABELLING according to Regulation (EC) No. 1272/2008

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.

Safety data sheet	Temadur 50
Thinner safety data sheet	Temadur 50
Hardener safety data sheet	Temadur 50

The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes.

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