

TEMATHANE 50

DESCRIPTION

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

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Recommended to be used as a semigloss topcoat for epoxy and polyurethane systems exposed to weathering.
- ◆ Excellent weathering and abrasion resistance.
- ◆ A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.
- ◆ 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 and product codes

Base	9 parts by volume	514-series
Hardener	1 part by volume	008 7620

Pot life 4 hours (23 °C)

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
40 µm	75 µm	13.7 m ² /l
60 µm	110 µm	9.2 m ² /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
Recoatible, 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

Surface preparation	<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)
Primer	TEMACOAT GPL-S PRIMER, TEMACOAT GPL-S MIO, TEMACOAT GF PRIMER, TEMACOAT HB PRIMER, TEMACOAT RM 40, TEMACOAT SPA, TEMABOND, TEMADUR 20, TEMADUR PRIMER, TEMAPRIME GF, FONTECOAT EP PRIMER and FONTECRYL 10.
Finish	TEMATHANE and TEMADUR.
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.
Mixing components	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.
Application	By airless or conventional spray or by brush. 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. Depending on the application method and the temperature of the components (base, hardener, thinner) the paint can be thinned 10 - 25 %. The viscosity should be 30 - 60 s DIN4. Airless spray nozzle tip 0.011" - 0.015" and nozzle pressure 120 - 160 bar. Spray angle shall be chosen according to the shape of the object. At conventional spray the viscosity should be 20 - 25 s DIN4. At brush application the paint should be thinned according to the circumstances.
Thinner	Thinner 1048 or 1067. Thinner 1061 is also suitable for conventional spraying.
Cleaning of equipment	Thinner 1048, 1067 or 1061.
VOC	The Volatile Organic Compounds amount is 425 g/litre of paint mixture. VOC content of the paint mixture (thinned 25 % by volume) is 521 g/l.
HEALTH AND SAFETY	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 Coatings Oy.

mko040506/tmk200206/514-s., 008 7620