

## Temadur Clear - Polyurethane varnish

### DESCRIPTION

A two-component, glossy polyurethane varnish, hardener aliphatic isocyanate.

### PRODUCT FEATURES

Used as a topcoat on polyurethane paint systems. Also suitable for coating of copper, aluminium and zinc surfaces. When used in interior wooden surfaces, please see "Application instructions Temadur Clear with hardener 0087596".

### Recommended uses

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### TECHNICAL DATA

#### Features

Excellent weathering and abrasion resistance. A durable, non-chalking topcoat with good gloss retention and easy to clean surface. • The product has MED (Marine Equipment Directive) certificate no VTT-C-11095-15-14 and is thus accepted for painting surfaces inside the ships. For industrial use only according to Directive 1999/13/EC.

#### Colour Range

Clear

#### Gloss groups

Full-gloss

#### Coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
40 µm	95 µm	10.7 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.

#### Thinner

1048 and 1067

#### Mixing ratio

Base 3 parts by volume 005 5600  
 Hardener 1 part by volume 008 7590

#### Application method

By conventional or airless spray or by brush.

#### Pot-life (+23°C)

2 hours viscosity of 25 s DIN 4  
 4 hours viscosity of 16 s DIN 4

#### Drying times

DFT 40 µm	+ 5 °C	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry, after	40 min	30 min	20 min	10 min
Touch dry, after	12 h	8 h	4 h	2 h
Recoatable without abrading, after	4 h - 10 d	2 h - 6 d	½ h - 72 h	15 min - 36 h

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

#### Solids volume

43 ± 2 volume % (ISO 3233)  
 48 ± 2 weight %

#### Density

1.0 kg / l (mixed)



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Product code 005 5600

MED Certificate VTT C 11095 15 14 Temadur Clear

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### 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	Temadur 20, Temadur 50, Temadur 90, Temathane 50 and Temathane PC 80.
Overcoating	Temadur Clear.
Lacquering	By conventional or airless spray or by brush. Depending on the temperature of the components (base, hardener, thinner) the varnish should be thinned 15 - 30 % to a viscosity of 14 - 18 s DIN4. Mixing of the components and adjustment of the viscosity should be done right before use in order to reach an optimal result. In order to obtain an even, non-porous finish, use a "wet in wet" technique: first a misty coat or a thin coat, then let the solvents evaporate for 2 - 15 minutes before applying the final coat.
	The product is best suited for application by conventional spray. Airless spray nozzle tip 0.009" - 0.011" and nozzle pressure 120 - 160 bar. Spray angle shall be chosen according to the shape of the object.
	When coating surfaces painted with Temadur the best result is obtained when the varnish is applied on a tacky, 10 - 30 minutes dried, surface. At brush application the varnish should be thinned according to the circumstances.
	TEMADUR CLEAR can also be applied directly on clean dry metal surfaces. Then it is recommended to apply at least two coats.
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	Ohenne 1048, 1067 tai 1061.
Maintenance instructions	Thinner 1048, 1067 or 1061.
EU VOC 2004/42/EC-limit value	The Volatile Organic Compounds amount is 510 g/litre of paint. VOC content in paint (thinned 30 % by volume) is 600 g/l.

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### 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	<a href="#">Temadur Clear</a>
Thinner safety data sheet	<a href="#">Temadur Clear</a>
Hardener safety data sheet	<a href="#">Temadur Clear</a>

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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.