

## TEMADUR CLEAR

**DESCRIPTION** A two component, glossy polyurethane varnish, hardener aliphatic isocyanate.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Excellent weathering and abrasion resistance.
- ◆ Used as a topcoat on polyurethane paint systems.
- ◆ A durable, non-chalking topcoat with good gloss retention and easy to clean surface.
- ◆ Also suitable for coating of copper, brass, aluminium and zinc surfaces.
- ◆ The product has MED (Marine Equipment Directive) certificate no 0809-MED-0394 and is thus accepted for painting surfaces inside the ships.
- ◆ For industrial use only according to Directive 1999/13/EC.

### TECHNICAL DATA

**Volume solids** 43 ± 2 %. (ISO 3233)

**Weight solids** 48 ± 2 %.

**Specific gravity** 1.0 kg / l (mixed)

**Mixing ratio and product codes**

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

**Pot life** 2 hours (23 °C) viscosity of 25 s DIN 4  
4 hours (23 °C) viscosity of 16 s DIN 4

### Recommended film thicknesses and theoretical 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.

### 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
Recoatible 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.

**Finish** Glossy.

**Colours** Clear.

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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>	TEMADUR 20, TEMADUR 50, TEMADUR 90, TEMADUR PRIMER, TEMATHANE 50, TEMATHANE 90 and TEMATHANE PC 80.
<b>Finish</b>	TEMADUR CLEAR.
<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>	<p>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.</p> <p>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.</p> <p>The product is best suited for application by conventional spray.</p> <p>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.</p> <p>When coating surfaces painted with Temadur the best result is obtained when the varnish is applied on a tacky, 10 - 30 minutes dried, surface.</p> <p>At brush application the varnish should be thinned according to the circumstances.</p> <p>TEMADUR CLEAR can also be applied directly on clean dry metal surfaces. Then it is recommended to apply at least two coats.</p>
<b>Thinner</b>	Thinner 1048 or Thinner 1067. At conventional spray also Thinner 1061.
<b>Cleaning of equipment</b>	Thinner 1048, 1067 or 1061.
<b>VOC</b>	The Volatile Organic Compounds amount is 510 g/litre of paint. VOC content in paint (thinned 30 % by volume) is 600 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 Oy.</p>

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