



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, aluminium and zinc surfaces
- 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
- When used in interior wooden surfaces, please see "Application instructions Temadur Clear with hardener 0087596"
- Recommended for transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment

TECHNICAL DATA

Volume solids 43±2% (ISO 3233)

Weight solids 48±2%

Specific gravity 1.0 kg / l (mixed)

Mixing ratio Base 3 parts by volume Temadur Clear
Hardener 1 part by volume 008 7590

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

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
95µm	40µm	10.7 m ² /l

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

Drying time

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

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

Gloss Full gloss.

Color shades Clear



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APPLICATION INSTRUCTIONS

Surface 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)
Recommended primers	Temadur 20, Temadur 50, Temadur 90, Temathane 50, Temathane PC 80.
Recommended topcoats	Temadur Clear.
Application conditions	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +5°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying.
Mixing components	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.
Application	<p>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.</p> <p>The product is best suited for application by conventional spray. For conventional spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 15–30% to the viscosity 14–18s (DIN4). Recommended nozzle tip is 1.4–1.6 mm and pressure 3–4 bar.</p> <p>For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 15–30% to the viscosity 14–18s (DIN4). Recommended nozzle tip is 0.009"–0.011" and 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>For brush application product 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>
Thinners	Thinner 1048, Thinner 1067, Thinner 1061 Thinner 1048 or Thinner 1067. At conventional spray also Thinner 1061.
Cleaning of equipment	Thinner 1048, 1067 or 1061.
VOC	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

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.

For industrial use only.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.