

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 VTT-C-4028-15-09 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 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 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.

Finish Glossy.

Colours Clear.

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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 | TEMADUR 20, TEMADUR 50, TEMADUR 90, TEMADUR PRIMER, TEMATHANE 50, TEMATHANE 90 and TEMATHANE PC 80. |
| Finish | TEMADUR CLEAR. |
| 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 | <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> |
| Thinner | 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. |
| HEALTH AND SAFETY | <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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