

# Temadur AN Clear

**DESCRIPTION** A two-component, full matt polyurethane varnish, hardener aliphatic isocyanate.

- PRODUCT FEATURES AND RECOMMENDED USES**
- Excellent weathering and abrasion resistance
  - A durable, non-chalking topcoat with good gloss retention and easy to clean surface
  - For industrial use only according to Directive 1999/13/EC
  - Used as a topcoat on Temadur AN paint systems

## TECHNICAL DATA

**Volume solids** 51±2%. (ISO 3233)

**Weight solids** 60±2%.

**Specific gravity** 1.1±0.1 kg / l (mixed)

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

**Pot life (+23°C)** 2 hours

**Recommended film thicknesses and theoretical coverage**

Recommended film thicknesses		Theoretical coverage
wet	dry	
60µm	30µm	17.0 m <sup>2</sup> /l
80µm	40µm	12.8 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 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
Recoatible, after	See Application in page 2			

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

**Gloss** Full matt.  
 ≤ 1 / 60°  
 ≤ 3 / 85°  
 Values are for film thickness of 30–40 µm.

**Color shades** Clear.

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	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)
<b>Recommended primers</b>	Temadur AN.
<b>Recommended topcoats</b>	Temadur AN Clear.
<b>Application conditions</b>	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.
<b>Mixing components</b>	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.
<b>Application</b>	<p>In order to obtain an even, non-porous finish, use a "wet-on-wet" technique: first a misty coat, then let the solvents evaporate for 3–8 minutes and then apply the full coat.</p> <p>There is no need for a misty coat if the overcoating interval between Temadur AN and Temadur AN Clear is not more than 1 hour at room temperature (+23°C).</p> <p>For conventional spraying, the product is thinned approximately 15–25% to the viscosity 18–22s (DIN4). Recommended nozzle tip is 1.2–1.6 mm and pressure 2–4 bar.</p> <p>For air-assisted airless spraying, the product is thinned approximately 7–15% to the viscosity 20–30s (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>
<b>Thinners</b>	Thinner 1048, Thinner 1061
<b>Cleaning of equipment</b>	Thinner 1048 or Thinner 1061.
<b>VOC</b>	The Volatile Organic Compounds amount (ISO 11890) is 430 g/l of paint mixture. VOC content of paint (thinned 25 % by volume) is 520 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 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.