

# Temadur SC-M 80

## DESCRIPTION

A two-component fast-drying gloss polyurethane paint, containing anticorrosive pigments, hardener aliphatic isocyanate.

## PRODUCT FEATURES AND RECOMMENDED USES

- Excellent weathering and abrasion resistance.
- A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.
- Recommended especially to be used as a single coat finish for earth moving machinery and other machinery and equipment.
- Also suitable to be used as a topcoat in epoxy/polyurethane systems exposed to weathering and chemical stress, e.g. storage tank exteriors, steel framework and other steel structures.



## TECHNICAL DATA

**Volume solids** 62±2% (mixture, ISO 3233)

**Weight solids** 75±2% (mixture)

**Specific gravity** 1.3±0.1 kg / l (mixture)

**Mixing ratio** Base 5 parts by volume Temadur SC-M 80  
Hardener 1 part by volume 008 7640

**Pot life (+23°C)** app. 2½ hours

## Recommended film thicknesses and theoretical coverage

Recommended film thicknesses/one coat application		Theoretical coverage
wet	dry	
145µm	90µm	6.9 m²/l
195µm	120µm	5.2 m²/l
Recommended film thicknesses/as a topcoat		Theoretical coverage
wet	dry	
65µm	40µm	15.5 m²/l
100µm	60µm	10.3 m²/l

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

Note! The painting work should be performed and supervised according to 12944-7 if not otherwise stated in the respective technical data sheet. Excessive film thickness may result e.g. in cracking, sagging, prolonged drying time, soft film, less chemical resistance, gloss deviation, adhesion and intercoat functionality. In case the product is used otherwise than stated in the standard a written approval from Tikkurila is required.



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### Drying time

DFT 60 µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	2h	1½h	50min	30min
Touch dry, after	8h	6h	3h	2h
Recoatable, after	No limitations.			

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. When forced drying in temperatures +50°C—+100°C is used, use flash-off time between 5–30 minutes, depending on the wet film thickness and the actual temperature.

### Gloss

Gloss.

### Color shades

Metso Grey, Metso Beige and Jonsson & Söner Grey (OEM).

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	<p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p>Steel surfaces: Blast clean to grade Sa2½. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.</p> <p>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)</p>
<b>Recommended primers</b>	Temadur 10, Temadur 20, Temacoat GPL-S Primer, Temacoat GF Primer, Temacoat GPL-S MIO, Temaprime EE, Fontecryl AP.
<b>Recommended topcoats</b>	Temadur SC-M 80.
<b>Application conditions</b>	<p>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.</p> <p>Good ventilation and sufficient air movement is required in confined areas during application and drying.</p>
<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>For airless spraying, the product is thinned depending on the temperature of the components and shape of the object approximately 0–15%. Recommended nozzle tip is 0.011"–0.015" and pressure 160–200 bar. Spray angle shall be chosen according to the shape of the object. In order to reach thicker coats (over 100 µm) use always "wet-in-wet" technique. Air-assisted airless equipment is recommended for the best appearance.</p> <p>For conventional spraying, the product is thinned approximately 15–18% to a viscosity 20–25 s (DIN4). Recommended nozzle tip is 1.6–1.8 mm and pressure 3–4 bar.</p>
<b>Thinners</b>	Thinner 1048, Thinner 1067
<b>Cleaning of equipment</b>	Thinner 1048, Thinner 1067
<b>VOC</b>	<p>The Volatile Organic Compounds amount (ISO 11890) is 350 g/litre of paint mixture.</p> <p>VOC content in paint mixture (thinned 18% by volume) is 460 g/l.</p> <p>VOC 2004/42/EC (cat A/j) 500 g/l (2010)</p>
<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 Oyj.</p>

### For industrial and professional 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.

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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.