Temathane SC 40

DESCRIPTION

A high-solids two-component, semi-gloss polyurethane paint, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES

- Temathane SC 40 has excellent sag resistance, thus enabling a thick paint film to be formed with one application. The paint levels evenly and is easy to apply on complex structures. Temathane SC 40 enables you to benefit from short implementation times, which helps to reduce overall project costs.
- Temathane SC 40 is specifically designed for use as a single-coat system on steel structures in severe environments. Its anti-corrosive pigmentation ensures protection against corrosion up to corrosivity category C5.
- High solids Temathane SC 40 is an ideal solution when a cost-efficient product with good gloss and color retention is required. This product stands out for its cost-effectiveness, offering competitive pricing per square meter.
- Excellent weather and abrasion resistance. It forms easy-to-clean and non-chalking topcoat with good gloss and color retention.
- Recommended for painting of steel buildings and other steelwork.

TECHNICAL DATA

Volume solids

68% (mixture, ISO 3233)

Weight solids

80±2% (mixture)

Specific gravity

1.4±0.1 kg/l (mixture)

Mixing ratio

Base	5 parts by volume	Temathane SC 40
Hardener	1 part by volume	008 7680

Pot life (+23°C)

1 hour

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
150µm	100µm	6.8 m²/l
180µm	120µm	5.7 m²/l
240µm	160µm	4.3 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 120µm	**+23°C**
Dust dry, after	1 h
Touch dry, after	1½ h
Recoatable, after	No limitations.

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

Gloss

Semi-gloss.

Color shades

RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. Temaspeed Premium tinting.

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APPLICATION INSTRUCTIONS

Surface preparation	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4) Steel surfaces: Blast clean at least to grade Sa2. Clean small damages by tool cleaning to St2. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion. 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	Temacoat GPL-S Primer, Temacoat HS-F Primer, Temacoat Primer.
Recommended topcoats	Temathane SC 40.
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 +5ºC 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	For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 0–5%. Recommended nozzle tip is 0.013"– 0.017" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object. For brush application product should be thinned according to the circumstances.
Thinners	Thinner 1048, Thinner 1067
Cleaning of equipment	Thinner 1048, Thinner 1067
VOC	The Volatile Organic Compounds amount (ISO 11890) is 293 g/litre of paint mixture. VOC content of the paint mixture (thinned 5% by volume) is 320 g/l. VOC 2004/42/EC (cat A/j) 500 g/l (2010)
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 and professional use only.**

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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.