Temadur SC 80

DESCRIPTION A two component gloss polyurethane paint, containing anticorrosive pigments, hardener aliphatic isocyanate.

PRODUCT FEATURES Recommended especially to be used as a single coat finish for agricultural and 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

RECOMMENDED USES Storage tank exteriors, steel framework and other steel structures.

TECHNICAL DATA

Features: Excellent weathering and abrasion resistance. A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.

Colour Cards: RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. TEMASPEED tinting.

Gloss groups: Gloss

Coverage:

Recommended film thicknesses/one coat application		Theoretical coverage
dry	wet	
80 µm	125 µm	8.1 m^2/l
120 µm	190 µm	5.4 m^2/l
Recommended film thicknesses/as a topcoat		Theoretical coverage
dry	wet	
40 µm	65 µm	16.2 m^2/l
60 µm	95 µm	10.8 m^2/l

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

Thinner: 1048 and 1067

Mixing ratio: Base 5 parts by volume 532 series
Hardener 1 part by volume 008 7640

Application method: By airless or conventional spray.

Pot-life (+23°C): 3 hours

Drying times:

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

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. When oven drying is practised in temperatures + 50°C - +100°C, the evaporation time should be 5 - 30 minutes before ovening, depending on the wet film thickness and actual temperature.

Solids volume: 65 ± 2 % volume (ISO 3233)
80 ± 2 % weight

Density: 1.4 ± 0.1 kg / l (mixed)

Product code: 532 series

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APPLICATION DETAILS

Application conditions	All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below + 5ºC during application or drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3ºC above the dew point.
Preparation	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4) 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. Zinc surfaces: Sweep blast clean with mineral abrasives, e.g. quartz sand, to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with PANSSARIPESU detergent. Hot dip galvanized surfaces are recommended to be painted with a mist coat (paint thinned 25 - 30 %) before the actual priming. Aluminium surfaces: Sweep blast clean with non-metallic abrasives to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with MAALIPESU detergent. Note! Painted zinc and aluminium surfaces are not recommended when they are exposed to continuous condensation. 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)
Priming	Temadur Primer, Temadur 20, Temacoat GPL-S Primer, Temacoat GF Primer, Temacoat HB Primer, Temacoat PM Primer, Temacoat GPL-S MIO, Temacoat RM 40, Temacoat SPA MIO, Temabond, Temaprime GF, Fontecryl 10, Fontecryl AP and Fontecoat EP Primer.
Finishing	Temadur and Temathane.
Painting	By airless or conventional spray. Airless spray: depending on the temperature of the components and shape of the object the paint can be thinned 0 - 15 %. Airless spray nozzle tip 0.011" - 0.015" and nozzle 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. At conventional spray the paint should be thinned 15 - 18 % to a viscosity of 20 - 25 s/DIN4.
Mixing of 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.
Cleaning of tools	Thinner 1067 or Thinner 1048.
EU VOC 2004/42/EC-limit value	The Volatile Organic Compounds amount is 320 g/litre of paint. VOC content in paint (thinned 18 % by volume) is 420 g/l.

HEALTH AND SAFETY CLASSIFICATION

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.

Product safety data sheet	TEMADUR SC 80 [GB-ENG]
Thinner safety data sheet	THINNER 1067 [GB-ENG]
Hardener safety data sheet	HARDENER 008 7640 [GB-ENG]

Temadur SC 80

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The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes.
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