

TEMADUR SC 80

DESCRIPTION

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

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ 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, e.g. storage tank exteriors, steel framework and other steel structures.
- ◆ Excellent weathering and abrasion resistance.
- ◆ A durable, easy to clean and non-chalking topcoat with good gloss and colour retention.

TECHNICAL DATA

Volume solids 65 ± 2 % (ISO 3233).

Weight solids 80 ± 2 %.

Specific gravity 1.4 ± 0.1 kg / l (mixed)

Mixing ratio and product codes
Base 5 parts by volume 532 serie
Hardener 1 part by volume 008 7640

Pot life 3 hours (23 °C)

Recommended film thicknesses and theoretical 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.

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
Recoatible, 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.

Finish Glossy.

Colours RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. TEMASPEED tinting.

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APPLICATION DETAILS

Surface 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 FONTECLEAN ZN 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 FONTECLEAN AL 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)

Primer

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.

Finish

TEMADUR and TEMATHANE.

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

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 20 - 30 % to a viscosity of 20 - 25 s/DIN4.

Thinner and cleaning of equipment

Thinner 1067 or Thinner 1048.

VOC

The Volatile Organic Compounds amount is 320 g/litre of paint. VOC content in paint (thinned 30 % by volume) is 460 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 Oy.

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