

Temacoat GS 50

DESCRIPTION

A two component, polyamide-cured high build epoxy finishing and intermediate coat.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Used as a finishing or intermediate coat in epoxy and polyurethane systems exposed to abrasion and mechanical and/or chemical stress.
- ◆ Can also be applied direct to zinc and aluminium surfaces.
- ◆ Also suitable as a single coat system.
- ◆ Rapidly recoatable and ready to handle.
- ◆ Recommended for haulage equipment, steel frameworks, conveyors, tubular bridges and other steel structures.

TECHNICAL DATA

Volume solids 57 ± 2 %. (ISO 3233)

Weight solids 71 ± 2 %.

Specific gravity 1.3 - 1.4 kg / l (mixed)

Mixing ratio and product codes
 Base 4 parts by volume 172-series.
 Hardener 1 part by volume 008 5600 or 008 5605 (fast)

Pot life
 6 hours (23 °C) with Hardener 008 5600
 3 hours (23 °C) with Hardener 008 5605

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
60 µm	105 µm	9.5 m ² /l
100 µm	175 µm	5.7 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 70 µm		0 °C	+ 5 °C	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry, after	with Hardener 008 5600	4 h	3 h	1 h	½ h	15 min
	with Hardener 008 5605	3 h	2 h	¾ h	½ h	12 min
Touch dry, after	with Hardener 008 5600	22 h	14 h	10 h	4½ h	2½ h
	with Hardener 008 5605	12 h	8 h	6 h	3½ h	2 h
Recoatable with epoxy paints, min. after	with Hardener 008 5600	30 h	24 h	6 h	2 h	1 h
	with Hardener 008 5605	18 h	14 h	4 h	1½ h	¾ h
Recoatable with polyurethane paints, min. after	with Hardener 008 5600	2 d	36 h	20 h	8 h	4 h
	with Hardener 008 5605	1½ d	24 h	12 h	6 h	3 h

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

Finish Semigloss.

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

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APPLICATION DETAILS

Surface preparation	<p><u>Primed surfaces:</u> 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> <p><u>Zinc surfaces:</u> 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.</p> <p><u>Aluminium surfaces:</u> 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.</p>
Primer	Temacoat GPL-S Primer, Temacoat HB Primer, Temacoat PM Primer, Temacoat GPL-S MIO, Temacoat SPA, Temabond and Fontecoat EP Primer.
Finish	Temacoat GPL, Temacoat GS 50, Temadur and Temathane.
Application conditions	<p>All surfaces must be clean and dry and free from contamination. The temperature of the substrate should be minimum 0°C and at least 3°C above the dew point of the air. The product should not be applied at temperatures below 0°C where there is a possibility of ice formation on the substrate.</p> <p>The temperature of paint itself should be above + 15°C for proper application. Good ventilation is required in confined areas during application and drying.</p> <p>Note! There is a natural tendency of epoxy coatings to chalk and discolor on exterior exposure</p>
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	<p>By airless or by brush. At airless spray application the paint should be thinned 5 - 25% by volume. Airless spray nozzle tip 0.011" - 0.017" and nozzle pressure 120 - 160 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>At brush application the paint should be thinned according to the circumstances.</p>
Thinner	Thinner 1031.
Cleaning of equipment	Thinner 1031.
VOC	<p>The Volatile Organic Compounds amount is 370 g/litre of paint mixture.</p> <p>VOC content of the paint mixture (thinned 25 % by volume) is 498 g/l.</p> <p>Only for industrial and professional use.</p>
HEALTH AND SAFETY	<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>