

TEMACOAT GPL-S PRIMER

DESCRIPTION

A two component, polyamide-cured high build epoxy primer containing zinc phosphate.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Excellent adhesion to steel, zinc and aluminium surfaces.
- ◆ Used as a primer or an intermediate coat in epoxy and polyurethane systems exposed to abrasion and/or chemical stress.
- ◆ Can be used as an intermediate coat on zinc-rich epoxy and zinc silicate paints.
- ◆ Rapidly recoatable.
- ◆ Recommended for bridges, haulage equipment, cranes, steel masts, conveyors and other steelwork, machinery and equipment.
- ◆ The product has MED (Marine Equipment Directive) certificate no VTT-C-4031-15-09 and is thus accepted for painting surfaces inside the ships.

TECHNICAL DATA

Volume solids 55 ± 2 %. (ISO 3233)

Weight solids 68 ± 2 %.

Specific gravity 1.3 - 1.4 kg / l (mixed)

Mixing ratio and product codes
Base 4 parts by volume 179-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	
50 µm	90 µm	11.0 m ² /l
100 µm	185 µm	5.5 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	2 h	1 h	½ h	15 min
	with Hardener 008 5605	3 h	1½ h	¾ h	½ h	12 min
Touch dry, after	with Hardener 008 5600	22 h	11 h	5 h	2½ h	2 h
	with Hardener 008 5605	12 h	6 h	3 h	2 h	1 ½ h
Recoatable with epoxy paints, min. after	with Hardener 008 5600	30 h	20 h	6 h	2 h	1 h
	with Hardener 008 5605	18 h	12 h	4 h	1½ h	¾ h
Recoatable with polyurethane paints, min. after	with Hardener 008 5600	2 d	32 h	18 h	6 h	3 h
	with Hardener 008 5605	1 ½ d	18 h	12 h	4 h	2 h
Recoatable without roughening max. 6 months						

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

Finish Matt.

Colours Temaspeed Primers colour card. TEMASPEED tinting.

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APPLICATION DETAILS

Surface preparation	<p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p><u>Steel surfaces:</u> 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><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>Hot dip galvanized surfaces are recommended to be painted with a mist coat (paint thinned 25 - 30 %) before the actual priming.</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> <p><u>Stainless steel:</u> Roughen the surface by grinding or sweep blasting using non-metallic abrasives.</p> <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>
Primer	TEMACOAT GPL-S PRIMER, TEMABOND, TEMAZINC 77, TEMAZINC 88, TEMAZINC 99 and TEMASIL 90.
Finish	TEMACOAT GPL, TEMACOAT GS 50, TEMACOAT RM 40, TEMACOAT SPA 50, TEMADUR, TEMATHANE, TEMACRYL EA, FONTECOAT EP 50, FONTECOAT EP 80 and FONTEDUR 90.
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 Squarrel Mixer for mixing.
Application	<p>By airless spray or by brush. At airless spray application the paint should be thinned 0 - 10 % 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	The Volatile Organic Compounds amount is 430 g/litre of paint mixture. VOC content of the paint mixture (thinned 30 % by volume) is 540 g/l.
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 Oy.</p>