

Temacoat RM 40

DESCRIPTION

A two component, resin modified epoxy paint.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Excellent resistance to abrasion, chemicals and water immersion.
- ◆ Used as a primer or finish for interior and exterior steel, aluminium, zinc and concrete surfaces exposed to mechanical and/or chemical stress - also for underground and underwater structures.
- ◆ Also suitable as a single coat system.
- ◆ Recommended for building frameworks, tubular bridges, conveyors, ship hulls and other steelwork and equipment.
- ◆ Used as a vapour barrier coating for concrete surfaces. VTT's (Technical Research Centre of Finland) report available. (When tested paint name was Reacolor).

TECHNICAL DATA

Volume solids 65 ± 2 %. (ISO 3233)

Weight solids 77 ± 2 %.

Specific gravity 1.2 - 1.3 kg / l (mixed).

Mixing ratio and product codes

Base	4 parts by volume	161-series
Hardener	1 part by volume	008 5600 or 008 5605 (fast)

Pot life 8 hours (23 °C) with Hardener 008 5600
4 hours (23 °C) with Hardener 008 5605

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
80 µm	125 µm	8.1 m ² /l
125 µm	195 µm	5.2 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 100 µm		+ 5 °C	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry, after	with Hardener 008 5600	8 h	4 h	2 h	1 h
	with Hardener 008 5605	5 h	2½ h	1½ h	¾ h
Touch dry, after	with Hardener 008 5600	16 h	14 h	7 h	4 h
	with Hardener 008 5605	10 h	8 h	5 h	3 h
Recoatible, min. after	with Hardener 008 5600	16 h	10 h	4 h	2 h
	with Hardener 008 5605	10 h	6 h	3 h	1½ h
Recoatible, surfaces to be submerged, min.	with Hardener 008 5600	2 d	36 h	16 h	8 h
	with Hardener 008 5605	1½ d	18 h	12 h	6 h
Recoatible with polyurethane paints, min. after	with Hardener 008 5600	2 d	48 h	24 h	12 h
	with Hardener 008 5605	1½ d	24 h	16 h	8 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>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 none-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>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>Concrete surfaces:</u> The surface must dry and at least 4 weeks old. The relative humidity of the concrete should not exceed 97%. Remove any splashes and unevennesses by grinding. Remove laitance and form oil from concrete castings by sanding or blast cleaning. Any cracks, crevices and voids must be repaired with a mixture of Temafloor 200 and fine dry quartz sand.</p> <p>Application: 2 - 3 x Temacoat RM 40</p>
Primer	Temacoat RM 40, Temacoat GPL-S Primer, Temacoat GF Primer, Temacoat PM Primer, Temacoat GPL-S MIO, Temacoat SPA, Temabond, Temasil 90, Temazinc 77, Temazinc 88 and Temazinc 99.
Finish	Temacoat RM 40, Temadur, Temathane and Temacryl EA.
Application conditions	<p>All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below +10°C during application and drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3°C above the dew point.</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 spray or brush. At spray application the paint can be thinned 0 - 20 %.</p> <p>Airless spray nozzle tip 0.015" - 0.021" and nozzle pressure 120 - 180 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 310 g/litre of paint mixture.</p> <p>VOC content of the paint mixture (thinned 30 % by) volume is 456 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>