Temacoat RM 40 - Epoxy paint

DESCRIPTION

A two-component, resin-modified epoxy paint.

PRODUCT FEATURES

Used as a primer or finish for interior and exterior steel, aluminium and zinc surfaces exposed to mechanical and/or chemical stress - also for underground and underwater structures. Also suitable to be used as a single-coat system.

Recommended uses

Recommended for building frameworks, tubular bridges, conveyors, ship hulls and other steelwork and equipment. Due to CE marking also suitable for concrete surfaces.

TECHNICAL DATA

Features

Excellent resistance to abrasion, chemicals and water immersion.

Colour Cards

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

Gloss groups

Semi-gloss

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.

Thinner

1031

Mixing ratio

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

Application method

By airless spray or brush.

Pot-life (+23°C)

8 hours with Hardener 008 5600
4 hours with Hardener 008 5605

Drying times

DFT 100µm		+5°C	+10°C	+23°C	+35°C
Dust dry, after	with Hardener 008 5600	12h	7h	3½h	1h
	with Hardener 008 5605	6h	4 h	2½h	45min
Touch dry, after	with Hardener 008 5600	18h	12h	5h	3h
	with Hardener 008 5605	10h	7h	4h	2½h

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Recoatable, min. after	with Hardener 008 5600	18h	12h	4h	2h
	with Hardener 008 5605	10h	7h	3h	1½h
Recoatable, surfaces to be submerged, min. after	with Hardener 008 5600	2d	36h	16h	8h
	with Hardener 008 5605	1½d	18h	12h	6h
Recoatable with polyurethane paints, min. after	with Hardener 008 5600	3 d	48h	24h	12h
	with Hardener 008 5605	1½ d	24h	16h	8h

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

Solids volume

65 ± 2 volume % (ISO 3233)
77 ± 2 weight %

Density

1.2 - 1.3 kg / l (mixed).

Product code

Paint 161-series, hardeners 008 5600 or 008 5605 (fast).

APPLICATION DETAILS

Application conditions

All surfaces must be clean, dry and free from contamination. The temperature of the ambient air and surface should not fall below +5°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point.

For proper application the temperature of the paint itself should be above +15°C during mixing and application. Good ventilation and sufficient air movement is required in confined areas during application and drying.

Note! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.

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 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.

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	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) Concrete surfaces: 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. Application: 2–3 x Temacoat RM 40
Priming	Temacoat RM 40, Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat SPA, Temabond, Temasil 90, Temazinc 77 and Temazinc 99.
Finishing	Temacoat RM 40, Temadur and Temathane.
Painting	For airless spraying, the product is thinned approximately 0–20%. Recommended nozzle tip is 0.015"–0.021" and pressure 120–180 bar. Spray angle shall be chosen according to the shape of the object. For brush application (small areas) the product should be thinned according to the circumstancies.
Cleaning of tools	Thinner 006 1031.
EU VOC 2004/42/EC-limit value	The Volatile Organic Compounds amount is 330 g/litre of paint mixture. VOC content of the paint mixture (thinned 20 % by) volume is 430 g/l. Only for industrial and professional use.
HEALTH AND SAFETY LABELLING according to Regulation (EC) No. 1272/2008	
	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.
Safety data sheet	Temacoat RM 40
Thinner safety data sheet	Temacoat RM 40
Hardener safety data sheet	Temacoat RM 40

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CE

The European harmonized productstandard EN 1504-2:2004 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the tables 1d, 1f and 1g in the appendix ZA.

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CE 0809
Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA
14
0809-CPD-0773
EN 1504-2:2004
Coating

Abrasion resistance	< 3000 mg
Resistance to severe chemical attack	Class II
Permeability to CO2	$CO_2 s_D$ > 50 m
Water absorption	w < 0,1 kg/m²·$h^{0,5}$
Impact resistance	Class I: ≥ 4 Nm
Release of dangerous substances	NPD
Permeability to water vapour	Class II, 5 m< s_D < 50 m
Reaction to fire	F(NPD)

Declaration of performance: TIK-0161-5001

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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