

Temacoat RM 40 - Aluminium Primer

- DESCRIPTION** A two component, resin modified surface tolerant epoxy primer.
- PRODUCT FEATURES** Used as a primer 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. Used as a vapour barrier coating for concrete surfaces. VTT´s (Technical Research Centre of Finland) report available. (When tested paint name was Reacolor).
- RECOMMENDED USES** Recommended for building frameworks, tubular bridges, conveyors, ship hulls and other steelwork and equipment.

TECHNICAL DATA

Features Excellent resistance to abrasion, chemicals and water immersion.

Colour Aluminium

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

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|-----------------------|--|--|--|--|--|--|
| paints, min. after | | | | | | |
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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 | 161-series |

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APPLICATION DETAILS

| | |
|-------------------------------|---|
| Application conditions | 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. |
| Preparation | <p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p>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.</p> <p>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.</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>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.</p> <p>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)</p> <p>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.</p> |
| Priming | Application: 2 - 3 x Temacoat RM 40 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. |
| Finishing | Temacoat RM 40, Temadur, Temathane and Temacryl EA. |
| Painting | By airless spray or brush. At spray application the paint can be thinned 0 - 20%. 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. At brush application the paint should be thinned according to the circumstances. |
| Cleaning of tools | Thinner 1031. |
| EU VOC 2004/42/EC-limit value | The Volatile Organic Compounds amount is 310 g/litre of paint mixture. VOC content of the paint mixture (thinned 30 % by) volume is 456 g/l. Only for industrial and professional use. |

HEALTH AND SAFETY CLASSIFICATION

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.

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The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes.

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