



Temamastic PM 100

DESCRIPTION

A two-component, high-solids, modified epoxy paint, aluminium pigmented.

PRODUCT FEATURES AND RECOMMENDED USES

- Due to aluminium pigmentation it forms a very tight, abrasion and chemical resistant coat.
- Can be used as a primer for steel surfaces exposed to mechanical and chemical stress and water immersion.
- Low solvent content - lower solvent emissions than with traditional epoxy paints.
- May also be used as a single coat protection.
- Recommended for different types of steelwork, machinery and equipment in the wood-processing and chemical industry, such as paper machines, conveyors, pumps etc.

TECHNICAL DATA

Volume solids 72±2% (ISO 3233)

Weight solids 81±2%

Specific gravity 1.3 kg / l (mixed)

Mixing ratio Base 1 part by volume Temamastic PM 100
Hardener 1 part by volume 008 7289

Pot life (+23°C) 1h

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
70µm	50µm	14.4 m ² /l
210µm	150µm	4.8 m ² /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Note! The painting work should be performed and supervised according to 12944-7 if not otherwise stated in the respective technical data sheet. Excessive film thickness may result e.g. in cracking, sagging, prolonged drying time, soft film, less chemical resistance, gloss deviation, adhesion and intercoat functionality. In case the product is used otherwise than stated in the standard a written approval from Tikkurila is required.

Drying time

DFT 100µm	+10°C	+23°C	+35°C
Dust dry, after	5h	2½h	1h
Touch dry, after	9h	5h	2½h
Recoatible without sanding, min/max. after	9h-5d	5h-3d	2½h-1d

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

Gloss Semi-gloss.

Color shades Reddish aluminium

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APPLICATION INSTRUCTIONS

Surface preparation	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4) Steel surfaces: Blast clean at least to grade Sa2½. Clean small damages by tool cleaning to St2. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion. Earlier painted surfaces: Roughen old paint surfaces using e.g. abrasive wheel, sandpaper or blast cleaning.
Recommended primers	Temamastic PM 100.
Recommended topcoats	Temacoat GPL, Temacoat GS 50, Temacoat RM 40, Temadur 10, Temadur 20, Temadur 50, Temadur 90, Temadur HB 50, Temadur HB 80, Temathane 50, Temathane 90, Temathane PC 50, Temathane PC 80.
Application conditions	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +10°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. Good ventilation and sufficient air movement is required in confined areas during application and drying.
Mixing components	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.
Application	For airless spraying, the product is thinned approximately 0–10%. Recommended nozzle tip is 0.013"–0.019" and pressure 120–180 bar. Spray angle shall be chosen according to the shape of the object. For brush application product should be thinned according to the circumstances.
Thinners	Thinner 1031
Cleaning of equipment	Thinner 1031
VOC	The Volatile Organic Compounds amount is 246 g/litre of paint. VOC content of the paint mixture (thinned 10% by volume) is 302 g/l. VOC 2004/42/EC (cat A/j) 500 g/l (2010)
HEALTH AND SAFETY	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.

For industrial and professional use only.

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.