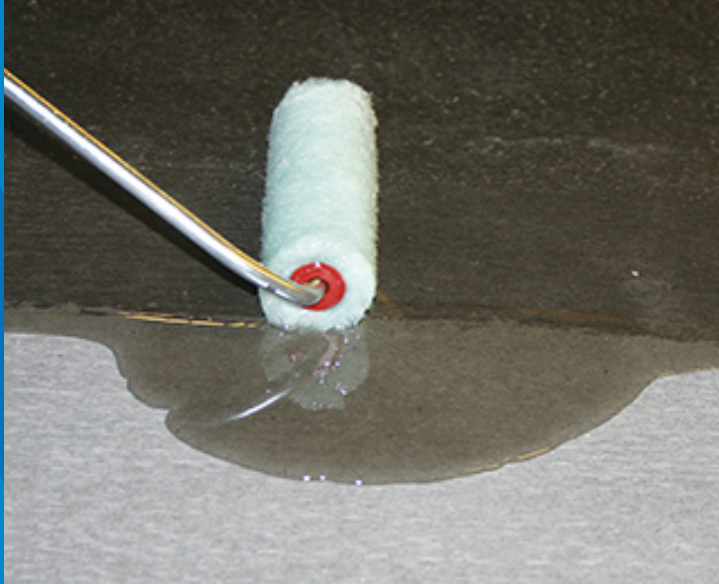


MAPEPRIMER M

Two-component epoxy primer designed for surfaces like concrete with a moist substrate



WHERE TO USE

Mapeprimer M can be used as a primer for epoxy and polyurethane coatings for floors and wall surfaces on balconies, in warehouses, in industries, tanks or similar applications.

Mapeprimer M is normally applied on concrete and other cement-based substrates.

TECHNICAL CHARACTERISTICS

Mapeprimer M can be used where the concrete surface is dry or moist, and provides excellent adhesion for the subsequent coating or top coat.

Mapeprimer M is a low emission product and complies with the requirements after M1.

Mapeprimer M is tested for use on wet concrete according to EN 13578 - Compatibility on wet concrete.

Mapeprimer M complies with the principles defined in EN 1504-9 standards (*"Products and systems for protecting and repairing concrete structures. Definitions, requirements, quality control and conformity assessment. General principles for the use and application of systems"*), and the requirements of EN 1504-2 (*"Protection systems for concrete surfaces"*) for class: products for protecting surfaces - coating (C) – PI, PR and CR.

Mapeprimer M complies with the requirements according to EN 13813 *"Screeds and materials for screeds – Materials for screeds – Properties and requirements"*, which specifies the requirements for screed materials used in the construction of internal floors.

RECOMMENDATIONS

- Do not apply **Mapeprimer M** on substrates with rising damp if they are going to be coated with an epoxy or polyurethane system.
- Do not dilute **Mapeprimer M** with solvent or water.
- Do not apply **Mapeprimer M** on dusty, crumbling or weak substrates.
- Do not apply **Mapeprimer M** on substrates with oil or grease stains or stains in general.
- Do not apply **Mapeprimer M** on substrates that have not been prepared as specified.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not expose the mixed product to sources of heat.

- If rooms where the product is being applied need to be warmed up do not use heaters that burn hydrocarbons, otherwise the carbon dioxide and water vapour given off into the air will affect the shine on the finish and ruin its appearance. Use electric heaters only.
- Protect the product from water for at least 24 hours after application.
- If the product is applied in areas with a high concentration of CO₂, high moisture and/or temperatures less than 3 degrees above dew point, this might lead to a sticky and discoloured surface. Before any further treatment, this must be removed and the surface coated after a new layer of primer is applied.

APPLICATION PROCEDURE

Preparation of the substrate

The concrete must be sound, clean and dust-free with a smooth permanent surface. Normal cleaning methods such as milling, grinding or shot blasting can be used. The substrate's surface temperature should be at least +10°C and at least 3°C above the applicable dew point during product application.

Preparation of the product

Components A and B should have a temperature of +15°C or more when mixed together. Component B is poured into component A and mixed with a drill whisk at a slow speed for approximately 3 minutes until the product is completely homogenous. The product must not be thinned.

Application of the product

Mapeprimer M should be applied using a roller or trowel in one or two coats, depending on the substrate. After application, the primer should form a covering layer without any dry areas. If there are more than 48 hours at +20°C until application of the coating, the primer should be dressed with a light layer of dry sand of grain size 0,4 to 0,8 mm (grain-to-grain) in order to ensure good adhesion for the subsequent coating.

Used as a moisture barrier and damp proof membrane

Apply at least 2 coats of **Mapeprimer M** by using a roller or a squeegee with a minimum consumption of 0.3 kg/m² in each coat. After application, the surface has to appear completely free of pores and the product must form a continuous layer. The final coat should immediately be broadcasted with dry **Sand 0.4-0.8 mm** or **Sand 0.8-1.2 mm** to excess.

CLEANING

Tools and equipment must be washed immediately after use with **Spesialtynner**, ethanol or other cleaning agent suited for epoxy. Once hardened the product may only be removed mechanically.

CONSUMPTION

Consumption is approximately 0.2 - 0.4 kg/m² per coat, depending on the temperature and the substrate's coarseness and absorption.

Used as a waterproofing and damp proof membrane: at least 2 x 0.3 kg/m².

PACKAGING

4 kg set: Component A = 2.5 kg and Component B = 1.5 kg.

8 kg set: Component A = 5 kg and Component B = 3 kg.

20 kg set: Component A = 12.5 kg and Component B = 7.5 kg.

534 kg set: Component A = 2 x 167 kg and Component B = 200 kg.

STORAGE

Properties for use are not changed for a period of 24 months if stored between +5°C and +30°C in unopened in original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

When the product reacts, it generates considerable heat. After mixing components A and B we recommend applying the product as soon as possible and to never leave the container unguarded until it is completely empty.

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT DETAILS	Component A	Component B
Colour:	transparent	brown
Consistency:	thick liquid	liquid
Density:	1.12 g/cm ³	1.01 g/cm ³
Brookfield viscosity at +23°C:	approx. 1 275 mPa·s	approx. 1 432 mPa·s

APPLICATION DATA	
Color of mix:	straw-colored
Mixing ratio:	100 : 60 component A : component B
Consistency of the mix:	dense fluid
Density of the mix:	1.100 g/cm ³
Brookfield viscosity of the mix:	approx. 1 200 mPa·s
Application temperature range:	from +8°C to +30°C

FINAL PROPERTIES (7 days at +23°C and 50 % R.H)	
Step on time:	24 hours
Final setting time:	7 days
Shore D (ISO 868:2003):	approx. 75

Performance characteristics	Test method	Requirements according to EN 13813 for synthetic resin screeds	Product performance
Bond strength:	EN 13892-8	> 1.5 N/mm ²	> 4.8 N/mm ²

Performance characteristics	Test method	Requirements according to EN 1504-2	Product performance
Pull-off test. Reference substrate: MC (0.40) as specified in EN 1766, curing time 7 days:	EN 1542	Average (N/mm ²) <u>Crack-bridging or flexible systems</u> With no traffic: ≥ 0.8 (0.5) ^{b)} N/mm ² With traffic: ≥ 1.5 (1.0) ^{b)} N/mm ² <u>Rigid systems</u> With no traffic: ≥ 1.0 (0.7) ^{b)} N/mm ² With traffic: ≥ 2.0 (1.0) ^{b)} N/mm ²	> 4.8 N/mm ²
Adhesion on wet concrete (Substrate: MC (0,40):	EN 13578	After loading: a) No blistering according to EN ISO 4628-2 No cracking according to EN ISO 4628-4 No flaking according to EN ISO 4628-5 b) Pull-off-strength > 1.5 N/mm ² , the failure shall occur > 50 % as concrete rupture. This test is relevant for coatings intended to be applied on fresh concrete or concretes with a high moisture content.	> 3.8 N/mm ² more than 80 % concrete rupture

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

Mapei AS

Vallsetvegen 6, 2120 Sagstua, Norge

 +47 62 97 20 00
  mapei.no
 post@mapei.no

6750-11-2023-gbxno

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution.

