

MAPEFINISH

Two-component cementitious mortar for finishing concrete.



CO₂e FULLY OFFSET PRODUCTS

Residual Greenhouse Gas emissions measured throughout the life cycle of this product using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset for the year 2026 through the acquisition of carbon credits in support of forestry protection projects. For more details on emission calculations and offsetting projects, visit mapei.com.

WHERE TO USE

Superficial protection and levelling of concrete surfaces.

Some application examples

- Smoothing surface defects in concrete before painting.
- Smoothing and finishing concrete repaired with **MapegROUT** range mortar.
- Protect the concrete against mildly-aggressive agents from the surrounding environment.
- Repairs to the wear layer of concrete industrial floors.

TECHNICAL CHARACTERISTICS

MaPEfinish is a two-component mortar based on high strength cements, selected aggregates, special additives and synthetic polymers in water dispersion prepared from a formula developed in MAPEI's Research Laboratories.

On mixing the two parts (powder component A and liquid component B), a mortar is obtained, which can be easily applied on all surfaces, including vertical ones, in thicknesses up to 2-3 mm in one coat. Due to the high content of synthetic resins, **MaPEfinish** has excellent adhesion to all concrete surfaces and after hardening becomes a compact and tough layer, resistant to water and atmospheric gases.

MaPEfinish corresponds to the principles defined in EN 1504-9 (*"Products and systems for protecting and repairing concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems"*) and the requirements of EN 1504-3 (*"Structural and non-structural repairs"*) for R2-class non-structural mortars and of EN 1504-2 coating (C) according to the MC and IR principles (*"Protection systems for concrete surfaces"*).

RECOMMENDATIONS

- Do not use **Mapectin** for very thick coats (use products from the **Mapectin** line).
- Do not apply **Mapectin** at temperatures below +5°C.
- Do not add cement, aggregates or water to **Mapectin**.

APPLICATION PROCEDURE

TECHNICAL INFORMATION FOR THE APPLICATION

Composition of mix	component A : component B = 4 : 1 (e.g. 24 kg bag of component A with a 6 kg tank of component B)
Layer thickness:	2-3 mm
Application temperature range:	environmental and substrate temperature from +5°C to +35°C
Pot life of mix:	approx. 1 h (at +20°C)
Waiting time for superficial drying:	approx. 30 min.
Waiting time before painting over with Elastocolor Paint:	24 h

Preparing the substrate

To guarantee good adhesion of the product particular care must be taken with the preparation of the substrate.

The surface to be treated must be perfectly clean and sound.

For best results the most suitable preparation is by sand-blasting or a vigorous washing with water under pressure.

Completely eliminate all powder, efflorescence, traces of form release oil, cement tears, loose particles and rust from cement or concrete surfaces.

Where necessary, reconstruct and repair highly deteriorated areas using products from the **Mapectin** range (see relevant technical data sheet).

Soak concrete substrates with water.

Wait for the excess water to evaporate. If necessary use compressed air or a sponge to facilitate the elimination of free water.

Mortar must not be applied on substrates which show a film of surface water.

Preparing the mortar

Pour component B (liquid) into a suitable clean container and while mixing, slowly add component A (powder).

Carefully mix **Mapectin** for several minutes, scraping any unmixed powder off the sides of the mixer and remixing.

The mixing should be continued until complete homogeneity of the mix (total absence of lumps) is obtained. For this operation it is essential to use a low speed mechanical mixer to avoid entraining an excess of air into the mix.

Refrain from preparing the mix by hand. In cases where this is unavoidable, use a gauging trowel and press the mortar against the walls of the container to break any lumps and then mix well until complete homogeneity of

the mix is obtained.

Applying the mortar

Spread the mortar with a flat trowel onto the prepared surface with a maximum thickness of 2-3 mm per coat.

Greater thicknesses must be formed with several coats or preferably with products from the **Mapegrout** range.

The smoothing operation can be carried out with the same flat trowel or with a small sponge float some minutes after application.

If the surface should dry during the smoothing operation water can be sprayed over it to facilitate the use of the sponge float.

In hot weather, on windy or sunny days, it is advisable to spray water onto the surface during the first hours of curing to avoid rapid evaporation of moisture from the mix, as this could cause cracks.



Application with trowel



Smoothing with sponge float



Smoothing with sponge float

PRECAUTIONS TO BE OBSERVED DURING APPLICATION AND CURING

- No special precautions need be taken when the temperature is approx. +20°C.
- After its application, **Mapectin** must be cured very carefully; the mortar surface must be protected from rapid evaporation of water.

CLEANING

Due to the high adhesion of **Mapectin**, even on metal, it is advisable to clean tools with water before the mortar starts to set.

After setting, cleaning can only be done mechanically.

COVERAGE

1.87 kg/m² for each mm of thickness.

PACKAGING

Units of 30 kg: 24 kg component A (bags); 6 kg component B (tanks).

STORAGE

Mapectin component A, stored in original packagings in a dry place can be stored up to 12 months.

Mapecofinish component B can be stored for 24 months.

Store both components at a temperature of at least +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Strength class according to EN 1504-3:	R2	
Type according to EN 1504-1:	PCC	
Identification according to EN 1504-2: (methods and principles)	Coating (C) – principles MC and IR	
	Component A	Component B
Consistency:	powder	fluid
Colour:	grey/light grey	white
Maximum size of aggregate:	0,4 mm	-
Ion-chloride content according to EN 1015-17: (minimum requirement according to EN 1504 $\leq 0,05\%$)	$\leq 0,02\%$	$\leq 0,02\%$

TECHNICAL INFORMATION FOR THE PREPARATION OF THE PRODUCT

Mix ratio:	component A : component B = 4 : 1
Preparation of mix:	mixing of product according to EN 196-1

CHARACTERISTICS OF FRESH MIX (at +20°C - 50% R.H)

Colour of mix:	grey
Consistency of mix:	fluid - trowellable
Density of mix:	1870 kg/m ³

FINAL PERFORMANCE

*According to curing defined in test methods
(thickness 2.5mm dry)*

Performance characteristic	Test method	Requirements EN 1504-2 (C) MC e IR	Requirements EN 1504-3 R2	Product performance
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Compressive strenght: - 7 days -28 days	EN 12190	not required	- ≥ 15 Mpa	22 MPa 37 MPa
Flexural strength: - 7 days - 28 days	EN 196-1	not required	not required	5 MPa 10 MPa
Compressive modulus of elasticity:	EN 13412	not required	not required	14 GPa
Adhesion to concrete by direct traction:	EN 1542	for rigid systems without traffic ≥ 1,0 MPa	≥ 0,8 MPa	≥ 2,0 MPa
Resistance to accelerated carbonation:	EN 13295	not required	not required	depth of carbonation ≤ of reference concrete reference
Thermal compatibility - freeze-thaw cycles with de-icing salts (50 cycles): - storm cycles (30 cycles): - dry thermal cycles (30 cycles):	EN 13687-1 EN 13687-2 EN 13687-4	not required	≥ 0,8 MPa ≥ 0,8 MPa ≥ 0,8 MPa	≥ 2,0 MPa ≥ 2,0 MPa ≥ 2,0 MPa
Capillary absorption:	EN 13057	not required	≤ 0,5 kg/m ² ·h ^{0,5}	≤ 0,3 kg/m ² ·h ^{0,5}
Waterproofness expressed as water permeability coefficient W:	EN 1062-3	W < 0,1 kg/m ² ·h ^{0,5}	not required	W < 0,05 kg/m ² ·h ^{0,5} Classe W ₃ (low water permeability) according to EN 1062-1
Water vapour permeability (wet-cup - method B) expressed as equivalent air thickness S_D:	EN ISO 7783	Class I S _D < 5 m Class II 5 m ≤ S _D ≤ 50 m Class III S _D > 50 m	not required	S _D < 0,5 m Class I (permeable to water vapour)
Reaction to fire:	EN 13501-1	Euroclass	Euroclass	E

NOTES:

Specimen preparation: compaction according to EN 196-1.

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 website www.mapei.com

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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 force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

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