MAPEFINISH

TWO-PART CEMENT MORTAR FOR CONCRETE SURFACES



Protection and levelling of concrete surfaces.

Typical Applications

- Smoothing surface defects in concrete before painting.
- · Finishing concrete repaired with MAPEGROUT THIXOTROPIC mortar.
- · Protecting concrete from moderately aggressive airborne pollutants.

TECHNICAL CHARACTERISTICS

MAPEFINISH is a two-part mortar based on high strength cements, selected small

diameter 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 Part A and liquid Part B), a mortar is obtained, which can be easily applied on all surfaces, including vertical ones, in thicknesses up to 3-4 mm in one coat. Due to the high content of synthetic resins, MAPEFINISH has an excellent adhesion to all concrete surfaces and after hardening becomes a compact and tough layer, resistant to water and atmospheric gases (CO2 - SO2 - nitric oxides). It is also resistant to freeze-thaw



RECOMMENDATIONS

- Do not use MAPEFINISH for very thick coats (use MAPEGROUT THIXOTROPIC or MAPEGROUT HI-FLOW).
- Do not apply MAPEFINISH at temperatures below +8°C.
- Do not add cement, aggregates or water to MAPEFINISH.

DIRECTIONS FOR USE Preparing the Substrate

To guarantee a good adhesion of the product particular care must be devoted to the preparation of the substrate.

The surface to be treated must be perfectly clean and solid. For best results the most suitable preparation is by sandblasting or a vigorous washing with water under pressure.

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

Where necessary, reconstruct and repair highly dilapidated areas using MAPEGROUT THIXOTROPIC or HI-FLOW (see relevant technical leaflets). Soak concrete or other porous substrates with

Wait for the excess water to evaporate. If necessary use compressed air or a









Application with trowel



Smoothing with sponge float



Smoothing with sponge float

sponge to facilitate the elimination of free water. In no case can the mortar be applied on substrates which show a film of surface water.

Preparing the Mortar

(Abrading wheel H-22):

Pour the Part B (liquid) into a suitable clean container and while mixing, slowly add Part A (powder). Carefully mix MAPEFINISH for some minutes, scraping any unmixed powder off the sides of the mixer.

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 stirring 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 3-4 mm per coat.

Greater thicknesses must be formed with several coats or preferably with MAPEGROUT.

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

TECHNICAL DATA:	
PRODUCT IDENTITY: Customs class:	3824 50 90
PART A:	
Type:	powder
Colour:	grey
Specific gravity:	1.2 kg/l
Dry solids content:	100%
Storage life:	6 months in original packaging in a dry place
Health hazard according to EEC 88/379:	no. The cement content of the product may however cause irritation to the eyes and skin. For further information consult the safety data sheet.
Inflammability:	no
PART B:	
Type:	fluid liquid
Colour:	white
Specific gravity:	1.2 kg/l
pH:	6.6
Dry solids content:	24%
Brookfield viscosity:	26 cPs
Storage life:	1 year in original packing
Health hazard according to EEC 88/379:	no. The cement content of the product may however cause irritation to the eyes and skin. For further information consult the safety data sheet.
Inflammability:	no
APPLICATION DATA: Colour of the mix:	grey
Mixing ratio:	Part A: Part B = 4:1
Consistency of the mix:	plastic-trowellable
Specific gravity of the mix:	2.0 kg/l
pH of the mix:	12.5
Brookfield Helipath viscosity shaft 6-5 revs:	600.000 cPs
Application temperature range:	from +5°C to +35°C
Pot life at +23°C with 50% R.H.:	60 minutes
Surface drying time at +23°C with 50% R.H.:	20 minutes
Waiting time before painting - with ELASTOCOLOR: - with MAPECOLOR and solvent:	24 hours 24 hours
FINAL PERFORMANCES: Resistance to humidity:	excellent
Adherence to substrate (measured by pull-off test on damp concrete): after 28 days (at +23°C and 50% R.H.)	2.5 N/mm² (breaking of concrete)
TABER abrasion after 7 days at +23°C with 50% R.H. according to ASTM D 4060 - 84 norm - after 200 cycles with 500 gr weight (Abrading wheel H-22):	ı: 1.6 ar

1.6 gr

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

Precautions to be observed during application and curing

- No special precautions need be taken when the temperature is approx. +20°C.
- In hot weather, it is advisable to prevent the material from being exposed to sun and to use cold water for preparing the mix.
- After its application, MAPEFINISH must be cured very carefully; the mortar surface must be protected from rapid evaporation of water.

Cleaning

Due to the high adhesion of



MAPEFINISH, 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

2 kg/m² for each mm of thickness.

PACKAGING

Units of 30 kg composed of 24 kg Part A and 6 kg Part B.

STORAGE

Store MAPEFINISH in a dry place at temperatures above +5°C.

WARNING

N.B. Although the technical details and recommendations contained in this product report 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 pratical applications; 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.

N.B. FOR PROFESSIONAL USE ONLY







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