

MAPEFLOOR EP19 MT

Three-component epoxy mortar for wear-resistant floors and concrete repairs

DESCRIPTION OF PRODUCT

For use as a wear-resistant, epoxy mortar topping on concrete floors subjected to high mechanical and abrasion loads and heavy traffic or as a moisture-tolerant underlayment for resin flooring systems, or for high-strength repairs of concrete plinths and bearing pads.

Some application examples

- Wear-resistant beds for machinery and equipment.
- Repairing the corners of expansion joints in industrial flooring damaged by impact from trucks and forklifts, etc.
- Filling gaps before installing anti-acid floors subjected to high abrasion in industrial environments.
- Wear-resistant protection of reinforced concrete elements such as ramps, silo beds, and concrete floors subject to heavy traffic.
- As moisture tolerance layer (min. 5 mm) on concrete substrates with high moisture content.
- Leveling of undulating floors
- Repairing of damaged floors such as spalled and roughed surfaces
- Acid- and wear-resistant protection of beds for sewerage treatment machinery and concrete sewerage pipes.

TECHNICAL CHARACTERISTICS

Mapefloor EP19 MT is composed of a fluid epoxy resin, a special hardener, and graded silica sand mineral filler that is ideal for preparing a highly compact mortar.

Mapefloor EP19 MT hardens with minimal shrinkage to form a very strong product with particularly high resistance to wear and good resistance to aggressive chemical agents.

At +30°C **Mapefloor EP19 MT** is set for light foot traffic 16 hours after application and ready for vehicle traffic after 48 hours. Final curing occurs after 7 days.

RECOMMENDATIONS

- Primed surfaces with **Primer MT** or **Primer SN** before applying **Mapefloor EP19 MT**.
- Do not mix partial quantities of the components in order to prevent mistakes in the mix ratio that could interfere with the correct hardening of the product.
- Do not expose the product to heat sources after mixing.

HOW TO USE

Preparation of the substrate

- Before applying, make sure the substrate is properly cured, without cracks and with a solid surface.
- Remove cement laitance from the surface, along with any loose particles, oils or other materials that may interfere with bonding.
- Metal surfaces should be abraded down to white metal (Sa 2.5) before applying the product. Consult MAPEI Technical Service Department for further information on this.

Application of Primer MT

Just before applying **Mapefloor EP19 MT**, impregnate the dry surface with **Primer MT** or **Primer SN** two-component epoxy primer, supplied in two pre-dosed containers. Carefully blend component A and component B of **Primer MT** or **Primer SN** and then apply it with a trowel or roller.

Apply **Mapefloor EP19 MT** on **Primer MT** or **Primer SN** while it is still fresh. Or else, sprinkle with **Quartz 30/60** if application of **Mapefloor EP19 MT** by the following day is not possible.

Preparing Mapefloor EP19 MT

Pour **Mapefloor EP19 MT** components A and B into a clean bucket and mix for one minute. Then add component C (the powder component) while mixing at low speed until the mix is even with a consistency similar to a mortar screed.

Applying the product

Trowel the **Mapefloor EP19 MT** onto the primer while the latter is still fresh, then tamp it and float finish with a metal trowel.

Finishing coat

To reduce the surface porosity of the **Mapefloor EP19 MT** surface, one of these two procedures may be followed:

- saturate the surface with several coats of **Primer MT** or **Primer SN**;
- apply a protective smoothing layer of **Primer MT** or **Primer SN** mixed with 20% by weight of **Quartz 50/80**.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	Component A	Component B	Component C
Consistency:	viscous liquid	liquid	powder
Colour:	straw yellow	straw yellow	sand
Dry solids content (%):	100	100	100

APPLICATION DATA

Mix ratio by weight A : B : C (by weight):	1.5 : 0.75 : 20.25
Consistency of mix:	like damp sand (dry mortar)
Density of mix (kg/m ³):	~ 2,000
Application temperature range (°C):	from +5 to +30
Pot Life at 28°C (mixed A + B + C) (mins):	45
Workability at +23°C (mins):	30 - 40
Set to light foot traffic (+30°C)(hrs):	16
Ready for use (+30°C)(hrs):	48

FINAL PERFORMANCES

Resistance to moisture:	excellent
Resistance to temperature (°C):	from -5 to +80
Resistance to oils:	excellent
Resistance to acids and alkalis:	excellent
Compressive strength (EN 196/1)(N/mm ²):	
▪ after 1 day:	40
▪ after 7 days:	60
Flexural strength (EN 196/1)(N/mm ²):	
▪ after 1 day:	17
▪ after 7 days:	20
Adhesion to concrete (N/mm ²):	> 3 (failure of the substrate)
Impact resistance (BRE screed tester)(mm):	0.3

CLEANING

Tools and clothing must be cleaned with ethyl alcohol while the product is still fresh.

CONSUMPTION

Mapefloor EP19 MT

20 kg/m² per 1 cm of thickness.

Primer MT or Primer SN

0.3 - 0.5 kg/m² according to the absorption of the substrate.

PACKAGING

Mapefloor EP19 MT is available in kits containing;

- 22.5 kg kit
 - Component A: 1.5kg
 - Component B: 0.75 kg
 - Component C: 20.25 kg.
- 45 kg kit
 - Component A: 3kg
 - Component B: 1.5 kg
 - Component C: 20.25 kg x 2.

Primer MT or Primer SN is supplied in:

- 20 kg kits
 - Component A: 16 kg
 - Component B: 4 kg.

STORAGE

The product is stable for 12 months when stored in a cool, dry sheltered place at a temperature not less than +5°C.

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 Safety Data Sheet, available from our website www.mapei.com.my

PRODUCT FOR PROFESSIONAL USE.

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.my


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