MAPEFLOOR EP19 ME

Three-component epoxy screed for wear-resistant floors and repair compound.



WHERE TO USE

Industrial floors are subject to medium and heavy traffic, such as in warehouses, supermarkets, storage areas, and production facilities where there is intense forklift traffic. The product may also be used to quickly level off surfaces with a slight slope and to fill hollows in badly deteriorated floors.

Some application examples

· Processing and storage areas in the chemical and pharmaceutical industries.
· Processing and storage areas in the foodstuffs industry for surfaces subjected to medium to heavy traffic.
· All areas of mechanised warehouses.
· Shopping centres in areas with intense pedestrian traffic and where heavy loads are frequently moved around.
· Aseptic areas, in areas used for storage.
· In areas where badly deteriorated floors need to be renovated.

TECHNICAL CHARACTERISTICS

Mapefloor EP19 ME is a three-component epoxy screed manufactured from a formula developed in the MAPEI Research & Development Laboratories.
Mapefloor EP19 ME is composed of a fluid epoxy resin, a special hardener, and graded silica sand mineral filler that is ideal for preparing highly compact mortar.
Mapefloor EP19 ME hardens without noticeable shrinkage to form a very strong product with particularly high resistance to wear and good resistance to aggressive chemical agents if saturated with **Mapecoat I 24**, **Mapefloor FC 200 ME** or **Mapefloor I 300 SL ME**.
At +23°C **Mapefloor EP19 ME** is set for light foot traffic 6 hours after application and ready for vehicle traffic after 12 hours. Final curing occurs after 7 days.

RECOMMENDATIONS

· Treat surfaces with **Primer SN** before applying **Mapefloor EP19 ME**.
· Apply **Mapefloor EP19 ME** on **Primer SN** while it is still fresh.
· Do not apply **Mapefloor EP19** ME on substrates subject to intensive capillary rising damp.
· 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 sanded to perfectly clean metal before applying the product.

Application of Primer SN

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

Preparing Mapefloor EP19 ME

Pour **Mapefloor EP19 ME** components A and B into a clean bucket and mix for 2-3 minutes. Then add component C (the sand) while mixing on low speed until the mix is even and with a consistency similar to a mortar screed.

Application of the product

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

Finishing coat

To reduce the porosity and the settling of dirt on the **Mapefloor EP19 ME** surface, one of the two procedures may be followed:
· saturate the surface with several coats of **Mapefloor FC200 ME** or **Mapecoat I 24**;
· apply a protective smoothing layer of **Mapefloor I 300 SL ME** mixed with 20% by weight of **Quartz 0.25.**

Cleaning

Tools and clothing must be cleaned with ethyl alcohol while the product is still fresh. Once hardened, the product can only be removed by mechanical way.

CONSUMPTION

Mapefloor EP19 ME: 22 kg/m² per cm of thickness.
Primer SN: 0.3-0.5 kg/m² depending on the absorption of the substrate.

PACKAGING

Mapefloor EP19 ME is available in kits containing 26.4 kg of the product in accurately pre-measured components (1.6 kg component A + 0.8 kg component B + 24 kg component C).
Primer SN is supplied in 20 kg kits (16 kg of component A + 4 kg of component B).

STORAGE

The product is stable for 2 years when stored in a cool, dry sheltered place at a temperature not less than +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Mapefloor EP19 ME component A is an irritant for the eyes and skin, both components A and B may cause sensitisation if they come into contact with the skin of those predisposed. **Mapefloor EP19 ME** component B is corrosive and may cause burns and is harmful if swallowed. The product contains low molecular weight epoxy resins that may cause sensitisation if cross-contamination occurs with other epoxy compounds. **Mapefloor EP19 ME** component C is not considered as dangerous according to the current regulation regarding the classification of mixtures. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. When the material reacts, it generates a high amount of heat. We recommend applying the product as soon as possible after mixing components A and B and never leave the container unattended until it is completely empty.
Mapefloor EP19 ME components A and B are also hazardous for aquatic life. Do not dispose of these products in the environment.
For further and complete information about the safe use of our product, please refer to our latest version of the Safety Data Sheet.

TECHNICAL DATA (typical values)			
PRODUCT IDENTIFICATION			
	Component A	Component B	Component C
Consistency:	liquid	liquid	powder

Colour:	transparent	straw yellow	sand
Density (g/cm³):	1.17	1.03	-
APPLICATION DATA (at +23°C and 50% R.H.)			
Mix ratio by weight A : B : C:	component A : component B : component C = 1.6 : 0.8 : 24		
Consistency of mix:	damp sand		
Density of mix (kg/m³):	2.30		
Application temperature:	from +5°C to +35°C		
Workability at +23°C:	30-40 min		
Set to light foot traffic:	6 hours		
Ready for use:	12 hours		
FINAL PERFORMANCES (at +23°C - 50% R.H.)			
Resistance to moisture:	excellent		
Resistance to temperature:	from -20°C to +65°C		
Resistance to ageing:	excellent		
Resistances to oils:	excellent		
Resistance to acids and alkalis:	excellent		
Compressive strength (ASTM C579-01) (N/mm²): – after 7 days:	80		
Flexural strength (BS 6319-3) (N/mm²): – after 7 days:	40		
Tensile Strength (BS 6319-7) (N/mm²):	20		
Adhesion to concrete (N/mm²):	> 2 (failure of the concrete)		
Abrasion resistance - Taber abrasion test (ASTM D4060- 1,000 g / 1,000 rev / CS17) (g): – after 7 days:	1.0		

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, 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.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

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