



Mapefloor Pore Filler

Two-component, flexible polyurethane resin-based adhesive and pore filler/smoothing compound for Mapefloor Comfort System AL/X and Mapefloor Comfort System AR/X



WHERE TO USE

Mapefloor Pore Filler is a two-component, flexible, polyurethane resin-based formulate with 100% solids content and is used for bonding and then filling the pores and smoothing over **Mape Comfort** matting made from granules of rubber used in the **Mapefloor Comfort System AL/X** and **Mapefloor Comfort System AR/X**.

For internal use only.

TECHNICAL CHARACTERISTICS

Mapefloor Pore Filler a two-component polyurethane resin-based formulate according to a formula developed in the MAPEI R&D Laboratories.

Mapefloor Pore Filler has high bond strength, does not shrink during the hardening phase and its final level of elasticity is compatible with the amount of deformability typical of the floor covering systems **Mapefloor Comfort System AR/X** and **Mapefloor Comfort System AL/X**.

COLOUR

Grey-beige.

RECOMMENDATIONS

- Do not apply **Mapefloor Pore Filler** on substrates with a film of surface water or on concrete that is damp or not fully cured.
- Do not dilute **Mapefloor Pore Filler** with solvent or water.
- Do not apply **Mapefloor Pore Filler** on dusty or crumbling substrates.

- Do not apply **Mapefloor Pore Filler** on substrates with oil or grease stains or any contaminations.
- Do not apply **Mapefloor Pore Filler** on substrates that have not been prepared according to specification.
- 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.
- Protect the product from water for at least 24 hours after application.
- The temperature of the substrate must be at least +3°C higher than the dew-point temperature.

APPLICATION PROCEDURE

Substrate preparation

Mapefloor Pore Filler may be applied on dry, well cured, cementitious substrates. The minimum compressive and tensile strength of the substrate must be 25 N/mm² and 1.5 N/mm² respectively, and it must always be strong enough for the final design use. Remove all loose or crumbling areas mechanically. The surface of ceramic or natural stone substrates must be roughened with a diamond grinding disk or by shot blasting to remove all traces of enamel and polish. Any cracks must be repaired by filling them with **Eporip**, while any deteriorated areas of the concrete

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must be repaired with **Mapecfloor EP19** or a cementitious mortar from the **Mapecgrout** range.

Before applying **Mapecfloor Pore Filler**, remove all traces of dust from the surface with a vacuum cleaner.

Preparation of the product

Mix component A thoroughly and then add component B and mix again with an electric mixer at low speed until it is completely blended.

Application of the product

Bonding

Pour the product over the surface of the prepared flooring and spread it out evenly with a 3-4 mm notched trowel. While the adhesive is still wet, and within the open time specified in the technical data table, lay the special **Mapec Comfort** matting made from rubber granules and press it down firmly so that the adhesive penetrates between the granules. For further details on how to lay **Mapec Comfort** refer to the relative Technical Data Sheet.

Filling pores and smoothing

When the layer of adhesive has hardened, pour **Mapecfloor Pore Filler** over the **Mapec Comfort** and spread it out evenly with a straight steel or plastic trowel, making sure it penetrates into the pores in the substrate. We recommend spreading the product lengthways along the matting, smoothing over the whole width of the strips and the joints between adjacent pieces of matting. Smooth over the joints a second time when applying the product on the adjacent strips. Make sure all joints between the matting and walls and other vertical elements and members are completely filled with **Mapecfloor Pore Filler**. The product may also be used to fill any small holes in the layer of matting.

To ensure the pores in the **Mapec Comfort** are completely saturated, a second smoothing layer of **Mapecfloor Pore Filler** may be applied once the first one has hardened.

CONSUMPTION

Around $0.4 \div 0.8 \text{ kg/m}^2$ when used as adhesive - actual consumption is heavily influenced by the type of substrate - and $0.4 \div 0.5 \text{ kg/m}^2$ when used to smooth over **Mapec Comfort**.

Cleaning tools

Cleaning tools used to prepare and apply **Mapecfloor Pore Filler** with thinner for polyurethane products immediately after use. Once hardened the product may only be removed using mechanical means.

HARDENING TIME

Adhesive prior to applying the smoothing layer: wait at least 6 hours at +23°C and 50% R.H.

Smoothing and filling layer before applying the second smoothing layer or finishing coat: wait at least 8 hours at +23°C and 50% R.H. Lower temperatures lead to longer waiting times while higher temperatures reduce these times.

PACKAGING

Mapecfloor Pore Filler is supplied in 12.2 kg kits (A+B) (component A = 10 kg - component B = 2.2 kg).

STORAGE

Store in a dry, covered place at a temperature of between +5°C and +30°C. The product may be stored at least 12 months in such conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapecfloor Pore Filler component A is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. **Mapecfloor Pore Filler** component B irritates the skin, the eyes and the respiratory system, and it may cause sensitisation to those sensitive to isocyanates, if it comes in contact with the skin. Component B may become hazardous and cause sensitisation if inhaled at temperatures above +60°C. In the event of sickness seek medical attention.

When applying the product, it is recommended to use protective clothing, gloves, safety goggles and a safety mask to protect the respiratory system and to work in well-ventilated areas. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT ONLY 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

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

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	component A	component B
Colour:	beige	brown
Consistency:	thixotropic paste	clear liquid
Density (g/cm³):	1.3	1.2
Viscosity at +23°C (mPa·s):	50,000 (RV # 7 - 50 rpm)	100 (# 1 - 20 rpm)

APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	component A : component B = 100 : 22
Viscosity of mix at +23°C (mPa·s):	45,000 (# 7 - rpm 20)
Colour of mix:	beige
Consistency of mix:	thixotropic paste
Density of mix (kg/m³):	approx. 1,280
Workability time at +20°C:	approx. 30 mins.
Application temperature:	from +10°C to +30°C (refers to the surroundings, material and substrate)
Waiting time between layers at +23°C and 50% R.H.:	approx. 8 hours
Hardening time at +23°C and 50% R.H.: – dust dry: – set to foot traffic: – full hardening time:	2-4 h 24 h 7 days

The times above are for indication purposes only and are influenced by actual site conditions (e.g. temperature of the surroundings and substrate, relative humidity of the surrounding air, etc.)

FINAL PERFORMANCE

Tensile strength (DIN 53504) (N/mm²):	10
Tear strength (DIN 53515) (N/mm):	35
Elongation at failure (DIN 53504) (%):	80

