



Mapecfloor CPU/MF

**Polyurethane-cement
floor coating for
industrial floors with
a high resistance
to chemicals**



WHERE TO USE

Mapecfloor CPU/MF is a polyurethane-cement floor coating ideal for industrial floors in the foodstuffs, textile and water purification industries.

Some application examples

- Floors in the chemical processing and pharmaceutical industries.
- Floors in the food manufacturing industry.
- Floors in the sugar industry.
- Floors in the mineral water industry.

TECHNICAL CHARACTERISTICS

Mapecfloor CPU/MF is a three-component, polyurethane resin and cement-based floor coating, made according to a formula developed in MAPEI's own R&D laboratories.

Mapecfloor CPU/MF is versatile and may be applied at a thickness from 3 to 4 mm.

Mapecfloor CPU/MF is safe for the environment. It is particularly suitable for use in all areas of the foodstuffs industry, including those used for production.

Mapecfloor CPU/MF is extremely resistant to chemicals and abrasion, has high mechanical strength and is highly resistant to temperature.

Mapecfloor CPU/MF may also be used to create multi-layer systems and self-levelling systems.

RECOMMENDATIONS

Do not apply **Mapecfloor CPU/MF**:

- on dusty, crumbling or irregular surfaces;
- on ceramic or stone surfaces;
- on damp or wet surfaces.

Apply **Mapecfloor CPU/MF**:

- evenly at a uniform thickness;
- with a notched trowel, according to the thickness applied as a self-levelling layer on concrete substrates.

APPLICATION PROCEDURE

Preparation of the substrate

Concrete substrates must be clean and free of oil, grease, any other loose material and detached parts, and must not be subject to rising damp.

It is also essential to prepare the surface by heavy shot-blasting or milling.

Application of Primer SN

Using a smooth trowel, apply **Primer SN** mixed with **Quartz 0.5** at a ratio of 1 : 0.4 and, while still fresh, sprinkle on the same quartz until the primer is completely saturated.

| TECHNICAL DATA (typical values) | | | |
|---|--------------------------------|----------------------|----------------|
| PRODUCT IDENTITY | | | |
| | comp. A | comp. B | comp. C |
| Colour: | grey, beige, ochre, red, green | amber | white |
| Appearance: | liquid | liquid | powder |
| Density (g/cm³): | 1.05 | 1.2 | – |
| Bulk density (g/cm³): | – | – | 1.15 |
| Viscosity at +23°C (mPa·s): | 1,380 (# 1 - rpm 5) | 110 (# 1 - rpm 5) | – |
| APPLICATION DATA (at +23°C and 50% R.H.) | | | |
| Mixing ratio: | A/B/C: 4.2/4.2/20 | | |
| Colour of mix: | grey, beige, ochre, red, green | | |
| Consistency of the mix: | thick fluid | | |
| Density of the mix (kg/m³): | 1,900 | | |
| Viscosity of the mix (mPa·s): | 20,000 (# 5 - rpm 20) | | |
| Pot life of mix at +20°C: | 15 minutes | | |
| Surface temperature: | from +8°C to +30°C | | |
| FINAL PERFORMANCE | | | |
| Dust dry at +23°C and 50% R.H.: | 2-4 hours | | |
| Step-on time at +23°C and 50% R.H.: | 24 hours | | |
| Final hardening time: | 4 days | | |
| Taber Test after 7 days (at +23°C, 50% R.H., 1,000 cycles/1,000 g, CS 17 disk) (mg): | 70 | | |
| Flexural strength after 28 days (N/mm²): | 21 | | |
| Compressive strength after 28 days (N/mm²): | 60 | | |

When the **Primer SN** has hardened, remove the excess sand with a heavy-duty vacuum cleaner.

Form grooves around vertical elements and drain holes.

Cut a 2 cm-deep groove across the diagonals of the areas to be coated, and remove all the dust.

APPLICATION OF A SELF-LEVELLING COAT

Preparation and application of Mapefloor CPU/MF

Pour the three components which make up **Mapefloor CPU/MF** (A+B+C) into a large clean container and mix carefully, for approximately 3 minutes, using a low-speed drill with a blending attachment until a smooth, homogenous mix is obtained. Pour the mix on the floor and spread it out evenly and homogeneously using a smooth spreader or rake with spacers.

CONSUMPTION

To create a 4 mm-thick smooth self-levelling coat:

| | |
|-------------------------------------|-----------------------|
| – Primer SN (A+B): | 0.7 kg/m ² |
| – Quartz 0.5 (sprinkling on fresh): | 1.5 kg/m ² |
| – Mapefloor CPU/MF (A+B+C): | 8.0 kg/m ² |

Cleaning

Tools and equipment used to prepare and apply **Mapefloor CPU/MF** must be cleaned with solvents for polyurethane immediately after use. Once it has set, the product may only be removed mechanically.

PACKAGING

28.4 kg kits:
component A = 4.2 kg;
component B = 4.2 kg;
component C = 20 kg.

STORAGE

Mapefloor CPU/MF may be stored for up to 12 months in its original packaging in a dry place, and at temperatures between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Component B and component C of **Mapefloor CPU/MF** irritate if they come into contact with the eyes or skin. If the product comes into contact repeatedly with the skin, while working, it may cause rashes in those allergic to iso-cyanates. While handling and mixing the various components, avoid contact with the skin and eyes, and always use protective gloves and goggles when preparing and applying the product. Only apply the product in well-ventilated areas. Only when used at temperatures above +60°C, part B may become hazardous and irritating if inhaled. In the case of accidents, seek medical care. Avoid release to the environment. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

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

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



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CPU/MF**



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