

MAPEFLOOR CPU/COVE

Three-component polyurethane/ cement-based mortar for the realization of covings and details



WHERE TO USE

Mapefloor CPU/COVE is a three-component polyurethane/cement-based mortar used to mould fillets to realize covings between walls and floors or other features in industrial floor coverings made using products from the Mapefloor CPU range.

Some application examples

Before applying polyurethane/cement floor coating products from the Mapefloor CPU range:

- to mould fillets to blend in walls and floors;
- to repair small holes;
- to mould fillets around plinths, run-off channels, drains, etc.;
- to reconstruct edges, chipped joints, etc.

TECHNICAL CHARACTERISTICS

Mapefloor CPU/COVE is a three-component formulate made from cement, selected aggregates and polyurethane resin according to a formula developed in the MAPEI R&D laboratories.

Mapefloor CPU/COVE is characterised by its high strength and resistance to chemicals. It is used in combination with polyurethane/cement floor coating products from the Mapefloor CPU range.

To make Mapefloor CPU/COVE non-absorbent and easy to clean, paint over the surface with Mapefloor CPU/TC.

COLOURS AVAILABLE

Mapefloor CPU/COVE is a neutral-grey colour and must be coloured directly on site prior to application with Mapecolor Paste, available in the standard colours available for the various products from the Mapecolor CPU range (red 855, beige RAL 1001, green 860, grey RAL 7030 and ochre yellow) and in 19 other standard RAL colours.

RECOMMENDATIONS

- Do not apply Mapefloor CPU/COVE on substrates with a film of surface water or on concrete within 10 days of pouring.
- Do not dilute Mapefloor CPU/COVE with solvent or water.
- Do not apply Mapefloor CPU/COVE on dusty or crumbling substrates.
- Do not apply Mapefloor CPU/COVE on substrates with oil or grease stains or stains in general.
- Do not apply Mapefloor CPU/COVE on substrates that have not been prepared according to specification or on substrates without a coat of primer to form an effective grip.
- 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.
- Do not apply Mapefloor CPU/COVE on ceramic substrates or stone in general.
- Coatings made from Mapefloor CPU/COVE change colour if exposed to sunlight but this has absolutely no effect on its performance characteristics.

- The coating may also change colour if it comes into contact with aggressive chemicals. A change in colour, however, does not mean that it has been damaged by the chemical.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor CPU/COVE**.
- Use suitable specific cleaning equipment and detergent to clean the product, depending on the type of dirt or stain to be removed.
- 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

Preparation of the substrate

Mapefloor CPU/COVE is used in combination with polyurethane/cement products from the **Mapefloor CPU** range to mould fillets to realize covings and details.

The cementitious substrate of floors, walls and vertical surfaces in general must be in good condition, sound, must not be crumbling or dusty, must be clean and have no traces of grease, oil or any other material or substance that could impede adhesion of the product.

Remove all loose or crumbling areas mechanically.

Before applying **Mapefloor CPU/COVE** remove all traces of dust from the surface with a vacuum cleaner.

Preparation of the product

Pour component A into a large, clean container and, after mixing it, add component B and mix again with an electric mixer at low speed until it is completely blended.

Then slowly add component C and **Mapecolor Paste** colouring agent (0.25 kg for every kit of **Mapefloor CPU/COVE**) and continue mixing until an even coloured mix is obtained.

Apply the mix within the pot life indicated in the table (refers to a temperature of +20°C). Higher surrounding temperatures will reduce the pot life of the mix, while lower temperatures will increase its pot life.

Application of the product

Apply **Mapefloor CPU/COVE** while the **Primer SN** applied on the substrate is still wet. As an alternative, use a mixture of components A and B from **Mapefloor CPU/COVE** to prime the substrate. Apply the primer with a brush or roller then immediately apply **Mapefloor CPU/COVE**, pressing it and moulding it to shape with a suitable plastic or metal tool. When **Mapefloor CPU/COVE** has hardened, we recommend coating it with at least one coat of **Mapefloor CPU/TC** to seal the pores and make it easier to clean.

CONSUMPTION

According to the size and shape of the edge or corner to be blended in approx. 2.0 kg/l.

CLEANING TOOLS

Clean tools used to prepare and apply **Mapefloor CPU/COVE** with polyurethane thinner immediately after use. Once hardened, the product may only be removed using mechanical means.

HARDENING TIME

Mapefloor CPU/COVE may be subjected to small loads and stresses after around 24-36 hours at +23°C. The product develops its full strength after 4 to 5 days at minimum +23°C, although it depends on the actual surrounding conditions on site.

PACKAGING

Mapefloor CPU/COVE is available in 21 kg kits (component A = 1.6 kg - component B = 1.4 kg - component C = 18 kg).

STORAGE

Mapefloor CPU/COVE may be stored for 12 months in its original packaging at a temperature from +5°C to +30°C in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor CPU/COVE component B is irritant for the eyes, the respiratory apparatus and skin. Furthermore, it can cause irreversible damages if used for lengthy periods and sensitization if it comes into contact with the skin in those subjects sensitive to isocyanates.

Mapefloor CPU/COVE component B may become hazardous and cause sensitisation if inhaled at temperatures above +60°C. In the event of sickness seek medical attention.

Mapefloor CPU/COVE component C contains special hydraulic binders that, when in contact with sweat or other bodily fluids, may be corrosive and cause damage to the eyes.

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

Mapefloor CPU/COVE component A is hazardous for aquatic life. Do not dispose of it in the environment.

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.

TECHNICAL DATA (typical values)				
PRODUCT IDENTITY				
	BASE			PIGMENT
	comp. A	comp. B	comp. C	Mapecolor Paste
Consistency:	liquid	liquid	powder	thick liquid
Colours:	milky white	amber	grey-white	red 855, green 860, ochre yellow, grey RAL 7030, beige RAL 1001
Density (g/cm ³):	1.05	1.20	–	1.60 ÷ 1.80
Bulk density (g/cm ³):	–	–	1.40-1.45	–
Viscosity at +23°C (mPa·s):	800 ± 100 (# 2 - 20 rpm)	110 (# 1 - 5 rpm)	–	3000 ± 1000 (# 4 - 20 rpm)
APPLICATION DATA				
Mixing ratio:	A + B + C + Mapecolor Paste = 1.6 / 1.4 / 18 / 0.25 in weight			
Colour of mix:	grey, beige, red, green, ochre yellow			
Consistency of mix:	no slump			
Density of mix (kg/m ³):	1,990 ÷ 1,995			
Pot life of mix at +20°C:	20 mins.			
Surface temperature:	from +8°C to +30°C			
FINAL PERFORMANCE				
Dust dry at +23°C and 50% R.H.:	2 ÷ 4 hours			
Set to foot traffic at +23°C and 50% R.H.:	24 hours			
Complete hardening time:	5 days			
Adhesion strength (EN 13892-8) (N/mm ²):	≥ 1.5			

Flexural strength after 28 days (EN 196-1) (N/mm ²):	≥ 10
Compressive strength after 28 days (EN 196-1) (N/mm ²):	≥ 40
Shore D hardness after 28 days (DIN 53505):	75 ÷ 80
Taber Test after 28 days (at +23°C, 50% R.H., H22 disk, 1,000 g/1,000 revs) (EN ISO 5470-1) (mg):	2050

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

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