

1 General Data

Area of Application

CP-CRETE MF is used as a coloured mortar coating for industrial floors with high mechanical and hygienic demands. CP-CRETE MF floors exhibit excellent properties, good wear resistance and an outstanding resistance to chemicals.

It is suitable for medium stress, such as commercial surfaces, slaughterhouses, dry processing areas of the food industry, food and beverage storage areas, tobacco processing plants, production plants for printed circuits, chemical production plants, pharmaceutical production plants and others.

Product Description

CP-CRETE MF is a 4-component, self-smooth coating of high-grade polyurethane resin. The product exhibits a very high level of resistance against a large number of acids, solvents and other chemicals as well as a high abrasion resistance combined with excellent hygienic properties.

CREATIVE Systems

CP-CRETE MF serves as mortar for the CP CRETE system:
CP CRETE *standard*

Maintenance

In order to retain the qualities of the PU mortar coating for a long time we recommend regular maintenance.
The floor can be steam-cleaned.

Note

The characteristic data are approximate values calculated by us. They do not represent warranted characteristics. Consequently, no liability claims of any kind may be derived from the Technical Data Sheet.

(A) Technical Data

Liquid product (A+B+C+D)

1. Solids content	99%
2. Density (20°C)	1.9 g/cm ³
3. Viscosity (20°C)	A+B 500-1000 mPas
4. Packaging size (4-component container)	20. kg
5. Colours	see CP CRETE leaflet
6. Shelf life	12 months at 15–20°C in closed original container
7. Storage	Dry at 10-30°C, avoid direct sunlight

(B) Technical Data

Cured material

1. Bending tensile strength (DIN EN 196 / ASTM C 190)	18 N/mm ²
2. Compressive strength (DIN EN 196 / ASTM C 109)	58 N/mm ²
3. Tensile strength (ISO R 527 / ASTM D638)	10 N/mm ²
4. Adhesive pull strength (DIN ISO 4624)	> 2.5 N/mm ² (crack in concrete)
5. Abrasion resistance (DIN 53754 / ASTM D 1044)	1210 mg/1000 cycles (Taber H22)
6. Heat expansion coefficient (DIN EN 1770 / ASTM C531)	3.5 x 10 ⁻⁵ /°C
7. Heat conductivity (DIN 52612 / BS 874)	0.91 W/m °C
8. Water absorption (8CP.BM 2/67/2)	0 ml
9. Temperature resistance 4 mm dry: wet:	85°C 60°C

Manufacturer:

CP CRETE Sdn Bhd, No 41, Jalan Anggerik Mokara 31/63, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor, Malaysia, Tel. +603 51317940, Fax +603 51317941

2 Processing Instructions

Substrate Preparation

CP-CRETE MF is applied onto a substrate primed with CP-CRETE scratch coat. The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

On porous substrates a scratch coat of CP-CRETE MF can be applied .

Processing

The product is supplied in proportionate 4-component containers. Only full containers may be mixed. After stirring the A-component add comp.D and the B-component is added and mixed for about 30 seconds using an electric stirrer (spiral stirrer). After adding the filler (C-component) the mixture is stirred homogeneous for 1–2 minutes.

Scratch coat: (priming of porous substrates):

The product is poured onto the properly prepared, vacuum shot blasted substrate and spread across the floor with a trowel. Consumption is about 2500 g/m².

Mortar coating:

The product is poured onto the substrate and spread to a layer thickness of about 3–6 mm with a trowel. Immediately following application, the coating must be vented with a spiked roller. In order to avoid edges forming, adjoining areas must be coated within 10 minutes.

Reworking

If reworking within 12 hours after application, the mortar coating need not be sanded. Reworking later than that is only possible after sanding it carefully.

Health & Safety

Appropriate health and safety advice can be found in the Material Safety Data Sheets. Users are advised to wear gloves and eye protection when mixing or applying CP-CRETE MF.

Possibilities for layering and detailed information about the application of CP CRETE products can be found in the CP CRETE Technical Guide.

(C) Technical Data

Liquid mixture (A+B+C+D)

1.	Processing time (20°C)	approx. 10–15 min.
2.	Processing temperature	12–20°C (min. 3°C above dew point)
3.	Material temperature	15–25 °C
4.	Material consumption depending on substrate	2000 g/m ² per mm layer thickness
5.	Can be walked on (20 °C)	after 8–12 hours
6.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 2 days after 28 days

Manufacturer:

CP CRETE Sdn Bhd, No 41, Jalan Anggerik Mokara 31/63, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor, Malaysia, Tel. +603 51317940, Fax +603 51317941