



SISCOCRETE MF

SELF-SMOOTHING POLYURETHANE CONCRETE

Product Description

A 3-component, flowable, self-smoothing polyurethane concrete floor. Product designed for application for 3-4 mm thick. It is suit for use in the areas requiring a hygienic, seamless, thermal shock resistance and impermeable finish for water and chemical spillages.

Uses

Food & beverage factories, kitchens, bakeries & confectioneries, food processing plants, pharmaceuticals & textile industries, laboratories & hospitals, chemical plants and cold storage.

Specific Properties

- Smooth, seamless in matte or semi-gloss finish for selection
- Thermal shock resistance suit for food and beverage industry (Service temperature -20°C to 120°C)
- Fast access time after installation
- Excellent mechanical and chemical resistance
- Will not promote bacteria, mold, and fungi growth
- Breathable finished-allow vapor to evaporate

Technical Information

Color	Green, Grey, Yellow, Red, Blue	
Specific Gravity	1.85±0.05	
Pot life	15 minutes	
Compressive Strength	45-50 N/mm ²	ASTM C109
Tensile Strength	6.25 N/mm ²	ASTM C307-03
Bond Strength by slant shear	21.7 MPa	ASTM C882
Bond Strength (Pull off)	2.8 N/mm ²	Pull-off Method
Flexural Strength	13 N/mm ²	ASTM C348
Abrasion resistance	0.15 g (loss weight)	ASTM C944-99
Hardness (shore D)	> 82	



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Application Data

Equipment	Trowel, spike roller
Temperature Minimum	minimum 10 °C ,
Moisture of concrete	max. 20%, no rising of moisture on concrete surface
Humidity Maximum	Not Over 70% R.H.
Recommended thickness	3-4 mm
Cleaning Solvent	Thinner
Drying Time (light traffic)	12 hours (depend on ambient temperature)
Full Cure	7 – 14 days.
Theoretical Coverage	7.4 kg/m ² /4 mm (approx.)

Additional Information

Packaging	19 kgs. (A+B+C) Part A 3 KG. Part B 3 KG. Part C 13 KG.
Part A	Milky white liquid
Part B	Dark brown liquid
Part C	Colored powder (see catalog)

Surface Preparation

1. Substrates should be at least 28 days old and compressive strength must more than 280 ksc.
2. Surface should be sound, dry, clean, free from dust, laitance, oil, grease or any contaminations.

Surface Preparation

3. Laitance deposits are removed by planetary diamond disc grinder or by captive blasting followed by vacuum cleaning to remove dust and debris.
 4. Detail of surface preparation, please contact technical representative or see more in method of application.
 5. Applied scratch coat of Siscocrete SC or Siscocrete MF as priming coat 1-2 times depending on porosity of concrete substrate.
 6. Make a T-lock cut along the concrete joint, along the edge of the room, and around the base machines, around poles, or around the edges of gutters to create additional locking lines.
- ** Detail of surface preparation, please contact technical representative or see more in method of application. ****

Mixing and Application

1. Add part A to a clean mixing container follow with part B and mix with helical mixer for 30 seconds.
2. Add part C and mix for further 60-90 seconds until homogeneous mixed is achieved.
3. Pour the full contents of the mixed material onto the floor immediately after mixing is completed.
4. Spread the mixed material with trowel or squeegee. Immediately after spreading, spike roller must be rolled to allow air to release and to help surface levelling.
5. Scrap out of residue from the previous mix before continue the next mix.

**** Due to the material set fast, work must be done within 10-15 minutes. ****

Storage

Store in a cool dry place, protect from direct sunlight.



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Safety Precaution

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breath vapour or spray. In case of touch skin, wash skin thoroughly soap and water. In case of accidental eyes splashes, flush eyes with warm water immediately and obtain medical advice.

Disclaimer

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.