

SN-CRETE MF

A SELF-SMOOTHENING POLYURETHANE TOPPING



Chemical Industries Ltd.

DESCRIPTION

SN-CRETE MF is a 3 or 4 component, flow applied and self-smoothing polyurethane topping designed for thin layer applications and repairs in matt finish. Can be used as a new topping over old or worn out polyurethane floors.

USES

Ideal area of application includes hygienic flooring for kitchen, wetfood, beverage processing and packaging plants. Chemical resistance flooring for chemical process, containment area and wash down rooms. Thermal shock resistance flooring for freezers, refrigerators, and oven installed spaces. Mechanically durable flooring for loading docks and warehouses.

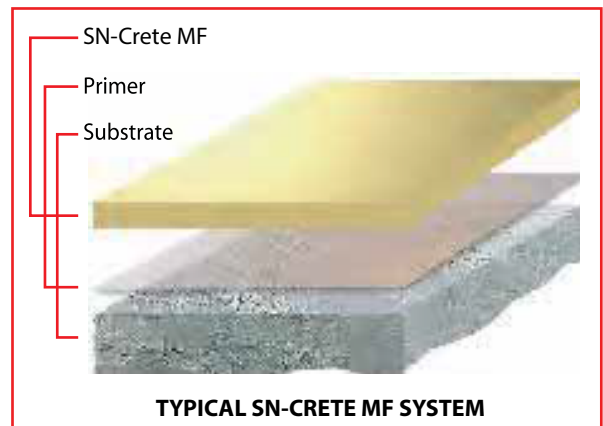
BENEFITS

- Excellent chemical resistance.
- Resists bacterial growth; fungi, mold and mildew.
- Easily cleaned and maintained smooth seamless surface.
- High-density systems with maximum wear, abrasion and impact resistance.
- User-friendly, no solvent odour during installation.
- One of the fastest "turnaround time" polymer modified product which reduces cost.
- High temperature resistance up to 80°C at 3mm thickness
- Seamless without joints for optimum sanitation and hygienic finish.
- Meets Japanese Standard JISZ 2801:2000, 5.2

COLOR

Available in six standard colors:
Red, Green, Cream, Light Grey, Dark Grey and Brown Beige.

* Light yellowing of the resin may occur if exposed to Ultra-Violet light but without affecting its functionality.



Technical Data:

Estimated Coverage	5.7kg/m ² /3mm or 1.9kg/m ² /1mm
Mixing Ratio	3:3:14 by weight of Part A & Part B & C
Density,kg/mm/m ²	1.9
Compressive strength (ASTM C942)	50N/mm ²
Tensile strength (ASTM D638-14)	7N/mm ²
Flexural strength (ASTM C348 : 2002)	21N/mm ²
Temperature resistance	80°C
Taber abrasion resistance	0.1 gms / 1000 gms loading 1000 rpm
Impact resistance	< 0.5 (BRE Screed tester) mm
Dynamic elastic modulus	14500 N/mm ²
Thermal conductivity	0.9W/m°C
Coefficient of thermal expansion,°C (BS EN 1770 : 1998)	3.5 X 10 ⁻⁵ °C
Pot life	18 min. at 30°C 25 min. at 15°C 35 min. at 8°C
Storage & Shelf Life	unopened in dry conditions between 10°C - 32°C / 1year
Packaging	20kg or 25kg

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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SURFACE REQUIREMENT & PREPARATION

Suitable substrates are concrete or modified polymer screeds with a minimum compressive strength of 25N/mm² and pull-off strength of 1.5N/mm². Substrate to be coated must be clean, free from dust, oil, water, paint residues, loose constituents or any contaminants. Make use of a concrete surface planer, grit blasting, surface grinding or other mechanical means until a flat, rough profile is evident. Prepare grooves, 5mm(wide) x 5mm(deep), at all edges, bay joints columns, doorways, and drains for anchoring purpose.

MIXING

Add Part A, to a clean mixing drum. Add Part B to the drum and mix for 10 seconds until uniform using a helical spinner. Add the pigmented Part C powder and further mix for 1 minute to achieve a fully homogenized consistent mortar. Scrap out residue of previous mix from the sides of the drum and discard before the next pack. Stir and mix both content well with slow speed power of 500-750rpm.

APPLICATION

Apply SN-CRETE MF within its pot life.

Spread the composite matrix to thickness of 3-6mm and consolidate with pin rake or notched squeegee set to the correct depth. Immediately release any trapped air by spike rolling.

TEMPERATURE

SN-CRETE MF should not be applied on material or floor temperatures below 10°C. Temperatures should not fall below 5°C in the first 24 hours after application. SN-CRETE MF is not designed for immersion.

SERVICE TEMPERATURES:

- At 3 mm : Resistance up to 80°C & for freezer temperatures -5°C
- At 6 mm : Resistance up to 90°C & for freezer temperatures -5°C

CURING

	25°C	35°C
Foot traffic. (hr)	10	8
Light traffic. (hr)	24	18
Full traffic. (hr)	48	24
Full cure. (days)	7	5

SUBSTRATE MOVEMENT

All moving joints must be carried through the SN-CRETE MF and properly sealed. Construction joints and cracks may be covered but if substrate movement occurs, the SN-CRETE MF will reflect the cracks.

CHEMICAL RESISTANCE

- SN-CRETE MF will resist spillages of :
- > Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric.
 - > Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration.
 - > Most dilute and concentrated organic acids.
 - > Fats, oil and sugar.
 - > Mineral oils, kerosene, gasoline and brake fluids.
 - > Most organic solvents.

CLEANING

Clean all tools with Washing Thinner or other solvents before the material hardens. Small unreacted Part B in container is to be decontaminated with a 5% solution of washing soda (sodium carbonate) prior to disposal. After material has set it is virtually impossible to get off and will only wear off over time.

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

HEALTH & SAFETY

The finished system is assessed as non-hazardous to health and the environment. SN-CRETE MF is HACCP International certified. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during the manufacture and application of the products by SN Chemical Industries Ltd. staff and fully-trained application teams. For further information, refer to the product Material Safety Data Sheet, available upon request.

FURTHER INFORMATION

SN Chemical Industries Ltd. is the leading supplier of engineered construction products in South East Asia. Our full line of products includes industrial polymer floor and wall coatings, waterproofing, structural repair materials, and other specialty protective coatings. Your solution provider to solve any building needs.

Manufacture by CEMKRETE ISO 9001 & 14000 CERTIFIED

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