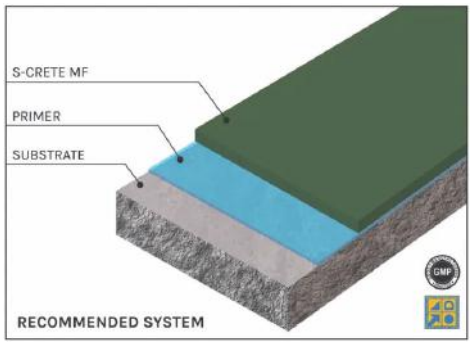
S-CRETE MF

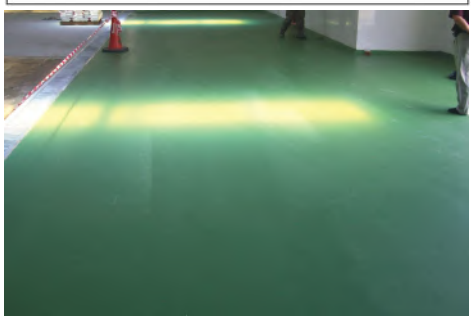
PU MF

A SELF-SMOOTHENING POLYURETHANE TOPPING

DESCRIPTION

S-CRETE MF is a 3 component, flow applied and self smoothening polyurethane topping designed for thin layer application 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. Mechanicall 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 withou joints for optimum sanitation and hygienic finish.
- Meets Japanese Standard JISZ 2801:2000, 5.2

COLOURS

Available in standard colours:
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

No. of Components	3
Estimated Coverage	5.7kg/m^2/3mm or 1.9kg/m^2/1mm
Mixing Ratio	3:3:14 weight of Part A, Part B & Part C
Density, kg/mm/m2	1.9
Compressive strength	50N/mm^2
Tensile strength	7N/mm^2
Flexural strength	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	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 at 10°C - 32°C /1 year
Packaging	20kg

APPLICATION

Apply S-CRETE MF within its pot life

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

MAINTENANCE

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

SURFACE REQUIREMENT & PREPARATION

Suitable substrate will normally be concrete or modified polymer screeds with a minimum compressive strength of 25N/mm^2 and pull-off strength of 1.5N/mm^2. If substrate moisture exceeds 4%, use CEMFLOR MBS as a moisture barrier. Preferably vacuum shot blast the sruface with non-impact method. Make use of a concrete surface grinding or other mechanical means until a flat profile is evident. Substrate to be coated must be clean, free from dust, oil, water, paint residues, loose constituents or any contaminants. Prepare grooves, 5mm (wide) x 5mm (deep), at all edges, bay joints columns, doorways, and drains for anchoring purpose.

www.machlab.com.my +603 - 8957 2000 enquiry@machlab.com.my

TEMPERATURE

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

SERVICE TEMPERATURES:

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

At 6mm: Resistance up to 90°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

HEALTH& SAFETY

The finished system is assessed as non-hazardous to health and the environment. S-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 manufacture and application of the products by fully trained application teams. For further information, refer to the product Material Safety Data Sheet, available upon request.

SUBSTRATE MOVEMENT

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

CHEMICAL RESISTANCE

S-CRETE MF will resist spillage 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 oraganic 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.

FURTHER INFORMATION

With a wealth of technical experience built up over many years in our pursuit of excellence especially in the protective and flooring technology, contact **MACHLAB** for further consultation.

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