

S-CRETE MF AS

A SELF - SMOOTHENING ANTI-STATIC POLYURETHANE TOPPING

DESCRIPTION

S-CRETE MF AS is a 4 components, self - smoothing polyurethane topping with thickness of 3mm that offers antistatic, antimicrobial properties and heavy duty chemical resistance.

USES

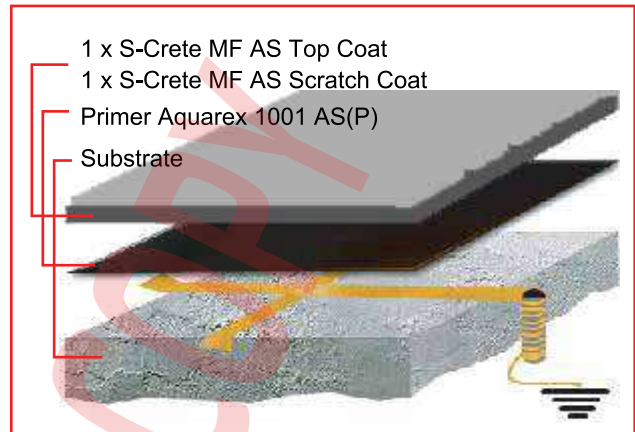
S-CRETE MF AS is suitable for use in areas where durable, cleanable floor surface is required without the attended risks of static build up. Ideal floors for electronics and semi conductor plants, ammunition plants, military arsenals, powder explosion risk areas and electronic "device" handling areas.

BENEFITS

- Eliminates electrostatic discharge from personnel vehicles and equipments.
- Meet British Standard BS 2050
- Resists bacterial growth; fungi, mould and mildew.
- Meets Japanese Standard JISZ 2801:2000, 5.2
- High -density systems with maximum wear, abrasion and impact resistance.
- High temperature resistance up to 60°C.
- User-friendly, no solvent odour during installation.
- One of the fastest "turn a round time" polymer modified product which reduces cost.
- Easily clean and maintain for a smooth surface.

COLOR

Standard **S-CRETE** colors. **S-CRETE** floor system is functionally formulated to withstand severe chemical, mechanical, and thermal damages. However, light yellowing of the floor surface exposed to UV may occur especially with light color products, (eg.cream) but without affecting its functionality.



Technical Data:

No. of Components	4
Estimated Coverage	5.7kg/m ² /3mm
Mixing Ratio	3 : 3 : 11.96 : 0.04 by weight of Part A, B, C and D
Density,kg/mm/m ²	1.9
Compressive Strength	50N/mm ²
Tensile strength	7N/mm ²
Flexural strength	21N/mm ²
Dynamic elastic modulus	14500 N/mm ²
Thermal conductivity	0.9W/m°C
Taber abrasion resistance	0.1 gms / 1000 gms loading 1000 rpm
Co efficient of thermal expansion,°C	3.5X10 ⁻⁵ C
Impact resistance	< 0.5 (BRE Screed tester) mm
Temperature resistance	60°C
Resistance to Earth	5 x 10 ⁴ to 10 ⁶ ohms
Pot life	18 min.at 30°C
Storage & Shelf Life	un opened in dry conditions between 10°C - 32°C / 1year
Packaging	18kg

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

Substrate will normally be concrete or modified polymer screeds with minimum compressive strength of 25 N/mm² and pull-off strength of 1.5N/mm². If substrate moisture exceeds 4%, use **CEMFLO MBS** as a moisture barrier. Preferably vacuum shot blast the surface with non-impact method. Concrete surface planer, grit blasting and surface grinding or other mechanical means until a flat profile is evident can be satisfactory. 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, door ways, and drains for anchoring purpose.

IMPORTANT: Old floor needs thorough inspection for its integrity as to ensure an ideal substrate for maximum adhesion. It has to be free from all contaminants. Grooves 5mm wide and 5mm deep have to be created diagonally into the floor every 1m² areas of the floor to facilitate mechanical bonding.

MIXING

Add Part A, Polyol, to a clean mixing drum. Add Part B, isocyanate, to the drum and mix for 30 seconds until uniform using a helical spinner, Add the conductive fiber Part D and further mix for 1 minute, Then, add in Part C pigmented powder for mixing 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.

APPLICATION

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

TEMPERATURE

S-CRETE MF AS should not be applied on material or floor temperatures below 10°C. Temperatures should not fall below 5°C in the 24hours after application. Service temperature is depending on thickness but may be up to 60°C on intermittent splash. Not for immersion.

SUBSTRATE MOVEMENT

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

MAINTENANCE

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

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

CHEMICAL RESISTANCE

S-CRETE MF AS 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.

Resistance is maintained in many cases to 60°C, which should be regarded as the maximum service temperature. Detailed test data available on request.

CLEANING

Clean all tools with Washing Thinner or other solvents prior to material taking a hardset. Small unreacted Part B in container 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.

HEALTH & SAFETY

Some of the components of this product may be hazardous during mixing and application. Always use with suitable protective gears. Close container tightly after use. Keep out of reach of children.

For further information, refer to the product Material Safety Data Sheet, available upon request.

FURTHER INFORMATION

With a wealth of technical and practical experience built up over the years in our pursuit of excellence especially in the protective, flooring and concrete technology, make **CEMKRETE** your partner today. Contact our hotline now.

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