

DESCRIPTION

S-CRETE HF is a 4 component polyurethane trowel applied in thickness of 6-9 mm screed. For industrial application and repairing system in matt anti-skid finish offering versatility in performance, aesthetics and economics.

USES

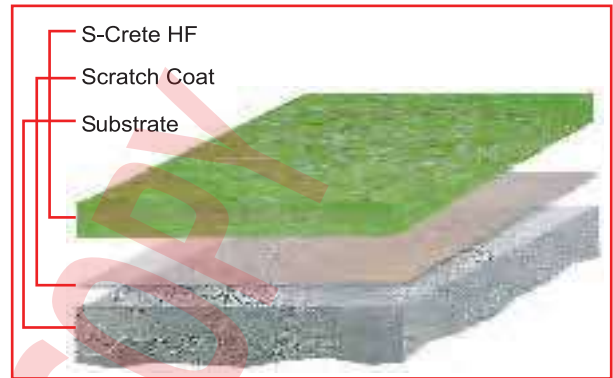
Ideal area of application includes hygienic floor for kitchen, wetfood, beverage processing and packaging plants. Chemical resistance flooring for chemical process, containment area and wash down rooms. Thermal shock resistance flooring for freezers, refrigerators, and oven installed spaces. Mechanically durable flooring for loading docks and warehouses. Anti - skid finish for safety in oily / slippery service condition.

BENEFITS

- Anti-skid surface for safety
- Resists bacterial growth; fungi, mold and mildew
- Easily cleaned and maintained smooth seam less 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 130°C at 6mm thickness
- Seamless without joints for optimum sanitation and hygienic finish
- Meets Japanese Standard JISZ 2801:2000, 5.2

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 Component	4
Estimated Coverage	12.6kg/m ² /6mm or 2.1kg/m ² /1mm
Mixing Ratio	3:3:14:12 by weight of Part A & Part B & Part C & Part D
Compressive Strength	50N/mm ²
Density, kg/mm/m ²	2.2
Tensile strength	7N/mm ²
Flexural strength	15N/mm ²
Temperature resistance	130°C
Taber abrasion resistance	1 gms / 1000 gms loading 1000 rpm
Impact resistance	< 0.5 (BRE Screed tester) ml
Dynamic elastic modulus	20000 N/mm ²
Thermal conductivity	1.0W/m°C
Coefficient of thermal expansion,°C	2.5X10 ⁻⁵ °C
Pot life	15 min. at 30°C 25 min. at 15°C 35 min. at 8°C
Storage & Shelf Life	un opened in dry conditions between 10°C - 32°C / 1year
Packaging	32kg

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 CEMFLOR MBS as a moisture barrier.

For floor in need of repair above 10mm may use DURAFLO EM 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. Substrate to be coated must be clean, free from dust, oil, water, paint residues, loose constituents or any contaminants. Prepare grooves, 8mm(wide) x 8mm(deep), at all edges, bay joints columns, doorways, and drains for anchoring purpose.

IMPORTANT:

Old floor needs thorough inspection for its integrity as to ensure it's an ideal substrate for maximum adhesion. It has to be free from all contaminants. Grooves 8mm wide and 8mm deep have to be created diagonally into the floor (every 1m² area of the floor) to facilitate mechanical bonding.

MIXING

Add Part A, Polyol, 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 Part D mixed aggregate and stir for 2 minutes 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 contents well with high power mixer of 750rpm.

APPLICATION

Apply **S-CRETE HF** within its pot life.

Spread the composite matrix to thickness of 6-9mm and consolidate with steel trowel to the correct depth as desired. Use short nap roller dipped in xylene and roll lightly on the surface to bring up the resin.

TEMPERATURE

S-CRETE HF 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 130°C on intermittent splash. Not for immersion.

SERVICE TEMPERATURES:

At 6 mm :130°C max. & -25°C
At 9 mm :140°C max. & -35°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 **S-CRETE HF** and properly sealed. Construction joint sand cracks maybe covered but if substrate movement occurs, the **S-CRETE HF** will reflect the cracks.

CHEMICAL RESISTANCE

S-CRETE HF 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 130°C, which should be regarded as the maximum service temperature.

CLEANING

Clean all tools with acetone, xylene or other solvents prior to material taking a hardest. 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. **S-CRETE HF** are USDA/FDA compliant & 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 CEMKRETE staff and fully trained application teams.

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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