

# US CRETE MF

## A SELF - SMOOTHENING POLYURATHANE TOPPING



### DESCRIPTION

A flow applied, self smoothing 3 components Polyurethane Topping for thin layer application and repairs in matt finish. As a US Crete MF new topping over old or wore out Polyurethane floors.

### RECOMMENDED USES

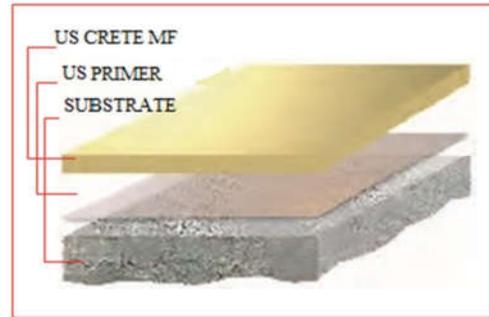
Hygienic floor for kitchen, wetfood, beverage processing and packaging plants. Chemical resistance floor for chemical process, containment area and wash down rooms. Thermal shock resistance floor for freezers, refrigerators, and oven installed spaces. Mechanically durable floor for loading docks and warehouses.

### BENEFITS

Excellent chemical resistance.  
Resists bacterial growth; fungi, mould 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 "turn a round time" polymer modified product which reduces cost.  
High temperature resistance up to 80°C at 6mm thickness  
Seamless without joints for optimum sanitation and hygienic finish. Meets Japanese Standard JISZ 2801:2000, 5.2

### COLOURS

Standard US Crete colours. US Crete floor system is functionally formulated to with stand severe chemical, mechanical, and thermal damages. As a direct result, light yellowing of the floor surface exposed to UV may occur, specially in light colors (eg.light grey) without affecting its functionality.



Technical Data	
Density,kg/mm/m <sup>2</sup>	1.9
Compressive Strength	50N/mm <sup>2</sup>
Tensile strength	7N/ mm <sup>2</sup>
Flexural strength	21N/mm <sup>2</sup>
Dynamic elastic modulus	14500 N/mm <sup>2</sup>
Adhesive strength	Concrete failure
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 Sreed tester) mm
Temperature resistance	Follow behind
Mixing Ratio	3:3:14 by weight of Part A & Part B & C
Pot life	18 min. at 30°C 25 min. at 15°C 35 min. at 8°C
Packaging	20kg
Storage & Shelf Life	un opened in dry conditions between 10°C - 32°C / 1years
Estimated Coverage	3.5m <sup>2</sup> /set/20kg
<b>Note:</b> Coverage figure given is theoretical. Due to wastage factory, the variety nature of the substrate and the site application condition, etc...The practical coverage maybe reduced.	



### SURFACE REQUIREMENT & PREPARATION

Substrate will normally be concrete or polymer modified screeds with minimum compressive strength 25 N/mm<sup>2</sup> and pull - off strength 1.5N/mm<sup>2</sup>. Preferably vacuum shot blast the surface with non - impact method. Concrete surface planer, grit blasting and surface grinding or other mechanical means until a profile is evident can be satisfactory. Substrate 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.

### MIXING

Add Part A and Part B into a clean mixing drum and mix for 10 second 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 mix well both contents with slow speed 500rpm - 750rpm.

### APPLICATION

Apply **US CRETE MF** within its pot life. Spread the composite matrix to thickness 3-6mm and consolidate with pin rake or notched squeegee set to the correct depth. Immediately release air by spike rolling.

#### 1st Coat / Primer

All **US CRETE MF** floor should be applied on to cured **US PRIMER**.

### TEMPERATURE

**US CRETE MF** 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.

### SERVICE TEMPERATURES

At 6 mm : 100°C max. & -10°C  
At 3 mm : 80°C max. & -5°C

### 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
Foot cure. days	7	5

### SUBSTRATE MOVEMENT

All moving joints must be carried through the **US CRETE MF** and properly sealed. Construction joint sand cracks maybe covered but if substrate movement occurs, the **US CRETE MF** will reflect the crack.

### CHEMICAL RESISTANCE

**US 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.

Resistance is maintained in many cases to 80°C, which should be regarded as the maximum service temperature.

### 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 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 many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make **US CRETE** your partner today! Contact hotline **NOW!**

