

# MIPRO-CRETE HF

A HEAVY DUTY, SLIP RESISTANT TROWEL APPLIED POLYURETHANE FLOORING

## **DESCRIPTION**

A 4 component polyurethane trowel applied screed in thickness from 6-9mm for industrial application and repairing system in matt anti-skid finish offering versatility in performance, aesthetics and economics.

## **USES**

- ✓ Hygienic floor for kitchen, wet food, 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.
- ✓ Anti-skid finish for safety in oily / slippery service condition.

## **ADVANTAGES**

- ✓ Seamless without joints for optimum sanitation aid hygienic finish. Anti-skid surface for safety.
- ✓ Resists bacterial growth; fungi, mould and mildew.
- ✓ High-density systems with maximum wear, abrasion and impact resistance.
- ✓ High temperature resistance up to 130° C at 9 mm thickness.
- ✓ Excellent chemical resistance.
- ✓ User-friendly, No solvent odor during installation.
- ✓ One of the fastest turn around time for polymer modified products reduces cost.
- ✓ Easily cleaned and maintained smooth surface.

## **COLOURS**

**MIPROCRETE HF** floor system is functionally formulated to withstand severe chemical, mechanical, and thermal damages. As a direct result slight yellowing of the floor surface exposed to **UV** may occur especially in **light** colors without affecting its functionality.



## **TECHNICAL DATA**

Density, kg/mm/m <sup>2</sup>	2.1
Compressive Strength	62 N/mm <sup>2</sup>
Tensile Strength	7 N/mm <sup>2</sup>
Flexural Strength	15 N/mm <sup>2</sup>
Bond Strength	Concrete Failure
Thermal Conductivity	Very Low
Taber abrasion resistance	1110 mg loss
Impact Resistant	<0.5 (BRE Screed tester) ml
Mixing Ratio	As mention on packing
Pot life	20min at 25° C
Pack Size (A+B+C)	30 kgs
Storage & Shelf Life	Unopened in cool dry condition 10° -25° C/ 6 months
Temp. Resistance	130° C @ 9mm Thickness
Estimated coverage 6mm thickness	2.5 M <sup>2</sup> /Pack size of 30 kgs

**NOTE:** Coverage figure given is theoretical. Due to wastage & roughness of surface & method of application, the actual coverage may be reduced.

## **CHEMIPROTECT ENGINEERS**

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## **CHEMICAL RESISTANCE**

**MIPRO-CRETE HF** will resist spillages of

- Dilute and concentrated acids: hydrochloric, nitric, phosphoric and Sulfuric.
- 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. Detailed test data available upon request.

## **APPLICATION PROCEDURE**

### Surface Requirement & Preparation

Substrate will normally be concrete or polymer modified screeds with minimum compressive strength 25N/mm<sup>2</sup> and pull-off strength 1.5N/mm<sup>2</sup>. If substrate moisture exceeds 4%, use water base epoxy primer and allow it to dry.

For floor in need of repair above 10mm use solvent free epoxy primer. 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, 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 providing 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 1m<sup>2</sup> area of the floor to facilitate mechanical bonding.

### **PRIMING**

All MIPRO-CRETE-HF floor should be applied onto cured water base epoxy primer, which has been broadcasted with silica sand.

## **MIXING**

Add part A, Polyol, to a clean mixing drum. Add Part B, isocyanate, to the drum and mix for 15 second until uniform using a helical spinner. Add Part –C pigmented Powder and further mix for 2 minutes to achieve a fully homogenized consistent mortar. Remove residue of previous mix from the sides of the drum and discard before the next pack.

## **APPLICATION**

Apply MIPRO-CRETE HF WITHIN ITS POT LIFE.

Spread the composite matrix to thickness 6—10mm and consolidate with steel trowel to the correct depth. Use short nap roller dipped in xylene and roll lightly on the surface to bring up the resin.

## **PACKAGING**

30 kg. packs, consisting of Base A, Hardener B & Filler C

## **STORAGE**

All parts of **MIPRO-CRETE-HF** should be stored properly in origin (un-opened) packaging in dry conditions at 10-32°C.

**SHELF LIFE:** will be 6 months minimum. Exaggerated temperature humidity ranges can adversely affect shelf life.

## **HEALTH & SAFETY**

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

## **FURTHER INFORMATION**

With a wealth of technical & practical experience built up over many years in our pursuit of excellence in flooring and concrete technology, make us your partner today!

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