

KCC-CRETE MF

A SELF-SMOOTHING POLYURETHANE SCREED (3 – 6 mm)

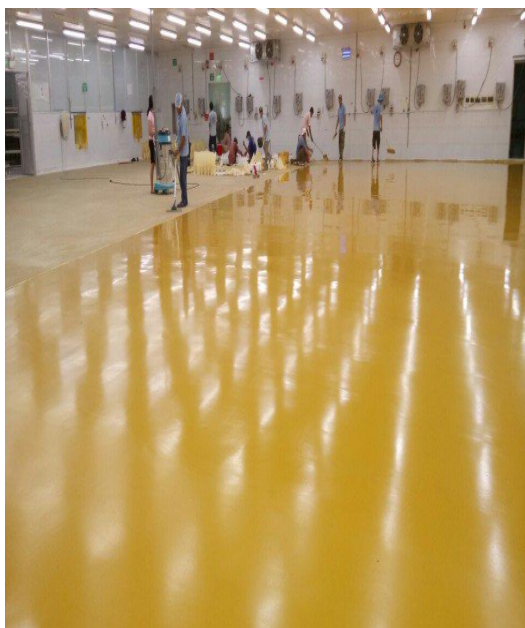
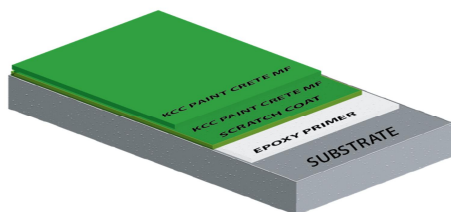
KCC PAINT
CRETE

DESCRIPTION:

KCC-CRETE MF is a self-smoothing thermal shock polyurethane floor coating. Seam less, high chemical, high mechanical properties, heat and slip resistance with matt finish.

PRODUCT FEATURE:

Area use for **GMP, HYGIENIC, HACCP** industrial floors in the food industry, beverage, seafood, meat, bakeries processing, cold storage, kitchen, warehouses, logistics areas, palm oil processing and packaging plants.



BENEFITS:

- Hygienic hot water steaming clean.
- Hard wearing, good abrasion resistance.
- High chemical resistance against alkalis, acids and organic solvent.
- High mechanicals and impact resistance.
- Temperature service with wide range between -5°C to 100°C
- Resist fungi, mildew and bacteria growth.
- Solvent free, odorless.
- After cured, non-cytotoxic response.

COLORS:

- Standard
- MF Green, MF Red, MF Grey, MF Cream, MF Buff, MF Light Grey.

(Exposed to UV may occur color change)

TECHNICAL DATA

Density (28C) g/cm ³	1.9g/ml
Tensile strength	25 Mpa
Compressive strength (28 days)	50N/mm
Adhesive strength	>2.0 Mpa (Concrete failure)
Flexural strength	21MPa
Service temperature:	at 3mm : 5°C ~ 80°C(max) at 6mm : -5°C ~ 100°C(max)
Shore D hardness	79 ~ 84
Cytotoxicity (2.4 or less)	below < 0.5
ASTM D 4060 -10 Taber Abraser	38mg
Wear Index in mg/1000 revolutions/1kg	
BS 6920: Part 1 :2000 clause 6	<2.39 or less
Growth of Aquatic Microorganisms	
ASTM E96/E96M-10	
Water Vapor Transmission, g/hr.m ²	1.23±
Pot life (working time)	15°C 30min 25°C 25min 30°C 22min
Material consumption:	1.9kg/m ² @1mm
Recoating time(28°C)	within 14 to 18 hours
Curing time:	
	15°C 25°C 32°C
Human traffic	36hrs 30hrs 24hrs
Light traffic	48hrs 36hrs 30hrs
Fully chemicals cure	7days 6days 5days



KCC (Vietnam) Co., Ltd

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CHEMICAL RESISTANT:

	PART A	PART B	COLOUR FILLER CS-2	PLAIN FILLER C-12
PACKAGING	3KG	3KG	2KG	12KG
SHELF LIFE & STORAGE (unopened and in good conditions temperature < 35°C)	9 months	9 months	24 months	9 months

FULL SET PACKAGING : 20KG/SET

SUBSTRATE REQUIREMENT & PREPARATION:

Substrate concrete or screed should be a minimum of compressive strength 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm². The substrate should be clean and free from laitance, oil, dust, loose constituents, paint residues, chemicals, algae and other contamination should be removed. The substrate should be dry and free from ground water pressure. If substrate moisture exceeded 7%, apply Epoxy mortar (compressive strength 80N/mm²) 4-5mm thick as a moisture barrier. The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 3mm wide x 3mm deep at all edges, bay joints columns, doorways and drains for anchoring purpose.

MIXING:

Shake Part A Polyol before pour into the barrel; pour all the Part B and Part A into the clean mixing barrel and mix for 5 second by using a suitable electrical stirrer (with 750watt High Power Mixer), then only add in Colour Filler WG (2kg) to mix at least 5 second, then only add in Plain Filler C-12 (12kg) to mix at least 50 second – 1 minute until it fully achieved a homogeneous consistent.

APPLICATION:

- Apply Epoxy Primer for sealing well the substrate porosity.
- Within 14–18 hours; of primer cured, then only apply KCC-CRETE MF as scratch coat (within 1mm thick ±)
- Within 14 – 18 hours of KCC-CRETE MF Scratch coat cured, then only allow doing layering of KCC-CRETE MF topping on to KCC-CRETE MF Scratch coat.
- Apply KCC-CRETE MF Topping must within the pot life (working time ± 20 minute.)
- Spread the composite matrix with notched squeegee or pin rake and set it to the correct depth of requirement thickness, immediately using spike roller to release the air / bubble.

TEMPERATURE CONDITIONS OF APPLICATIONS:

- Do not apply when the relative humidity exceeds 90% on when the surface to be coated is less than 5% above the dew point.
- Do not apply temperatures below 5°C and temperatures above 40°C.

CHEMICAL	CONCENTRATION	TEMP (°C)	RESISTANCE
Acetic Acid	10%	28°C	Excellent
Beer	-	28°C	Excellent
Blood	-	28°C	Excellent
Citric Acid	20%	28°C	Excellent
Detergents-acidic	All	28°C	Excellent
Detergents-alkaline	All	28°C	Excellent
Fats-animals and vegetable	-	28°C	Excellent
Fish oils	-	28°C	Excellent
Lactic Acid	5%	28°C	Excellent
Oil – diesel	-	28°C	Excellent
Oil –Fuel	-	28°C	Excellent
Oil-Mineral	-	28°C	Excellent
Sugar	100%	28°C	Excellent
Sodium hydroxide	50%	28°C	Excellent
Sodium Sulphate	All	28°C	Excellent

*Contact Technical Department for further information

Maintenance and care after cure :

We recommend basic cleaning and maintenance will prolong the life of polyurethane floors, clean regularly using a single or double headed rotary scrubber drier in conjunction with alkaline detergent.

Further Information:

Warning and precautions information relating to the safe handling of this product should be found in Material Safety Data Sheet. To be advise to put on suitable clothing and eye-ware for protection purpose. The application area/site must be in good ventilation otherwise advisable to use a portable exhaust fan.

Important Note:

KCC-CRETE products are warranty against defective materials. Due to different substrate and working conditions, no guarantee of an application result or any liability claims. The users are required to have a test ahead based on their intended use.



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