

KCC-CRETE HD

KCC PAINT
CRETE

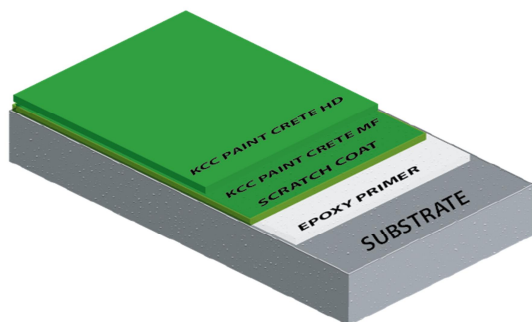
A SLIP RESISTANCE, HEAVY DUTY POLYURETHANE MORTAR

DESCRIPTION:

KCC-CRETE HD is a thermal shock polyurethane mortar screed applied in thickness from 6-15mm floor coating. Seamless, high mechanical properties, high chemicals, anti-slip, heat and cool resistance with texture matt finish.

PRODUCT FEATURE:

Area use for **GMP, HYGIENIC, HACCP** industrial floors, for wet food processing, beverage, seafood, meat, kitchen, cold storage, freezer (cool room), palm oil processing and wet packaging plants



BENEFITS:

- Hygienic hot water steaming clean.
- Hard wearing; good abrasion resistance.
- High chemical resistance against alkalis, acids and organic solvents.
- High mechanicals and impact resistance.
- Temperature service with wide range between -40°C to 150°C.
- Resist fungi, mildew and bacteria growth.
- Solvent free, odorless.
- After cured, non-cytotoxic response.
- Anti-slip for safety; oily floor.

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 Mixed (28C) g/cm ³	2.2g/ml
Tensile strength	25 MPa
Compressive strength (28 days)	50N/mm
Adhesive strength	>2.0 Mpa (Concrete failure)
Flexural strength	15MPa
Service temperature:	at 6mm to 9mm : -15 ⁰ C ~ 130 ⁰ C(max) at 9mm to 12mm : -40 ⁰ C ~ 150 ⁰ C(max)
Shore D hardness	80 ~ 85
Cytotoxicity (2.4 or less)	below < 0.5
ASTM D 4060 -10 Taber Abraser	38mg
Wear Index in mg/100 revolutions/1kg	
BS 6920: Part 1 :2000 clause 6	<2.39 or less
Growth of Aquatic Microorganisms	
Pot life (working time)	15 ⁰ C 30min 25 ⁰ C 25min 30 ⁰ C 22min
Material consumption:	2.2kg/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



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	PART A	PART B	COLOUR FILLER CS-2	PLAIN FILLER C-12	FILLER HD
PACKAGING	3KG	3KG	2KG	12KG	12KG
SHELF LIFE & STORAGE (unopened and in good conditions temperature 10°C to 30°C)	9 months	9 months	18 months	9 months	18 months

FULL SET PACKAGING : 32KG/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 8%, apply KCC-CRETE HD with minimum thickness 8mm and above. The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 5mm wide x 5mm 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 Color Filler CS-2 (2 kg) and Plain Filler (12kg) powder to mix at-least 10 second, then only add in Filler HD (12kg) to mix at least 50 second – 60 second 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 PAINT 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 HD topping on to the KCC-CRETE MF scratch coat.
- Apply KCC-CRETE HD Topping must within the pot life (working time ± 22 minute.)
- Spread the composite matrix with screed box on by hand trowel as per requirement thickness, immediately use a short nap roller to roll evenly on the surface to get the surface texture finishing evenness.

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 RESISTANT:

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 HD product 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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