

# KCC-CRETE MF

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

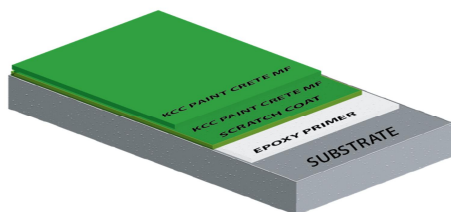
**KCC PAINT**  
**CRETE**

## 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 <sup>3</sup>             | 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 <sup>0</sup> C ~ 80 <sup>0</sup> C(max)<br>at 6mm : -5 <sup>0</sup> C ~ 100 <sup>0</sup> 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 <sup>2</sup> | 1.23±  |
| Pot life (working time)                       | 15 <sup>0</sup> C 30min<br>25 <sup>0</sup> C 25min<br>30 <sup>0</sup> C 22min                              |
| Material consumption:                         | 1.9kg/m <sup>2</sup> @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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# KCC-CRETE MF

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

KCC PAINT  
CRETE

|  | PART A   | PART B   | COLOUR FILLER CS-2 | PLAIN FILLER C-12 |
|--|----------|----------|--------------------|-------------------|
| PACKAGING  | 3KG      | 3KG      | 2KG                | 12KG              |
| SHELF LIFE & STORAGE<br>(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/mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5N/mm<sup>2</sup>. 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/mm<sup>2</sup>) 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 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 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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# KCC-CRETE HD

A SLIP RESISTANCE, HEAVY DUTY POLYURETHANE MORTAR

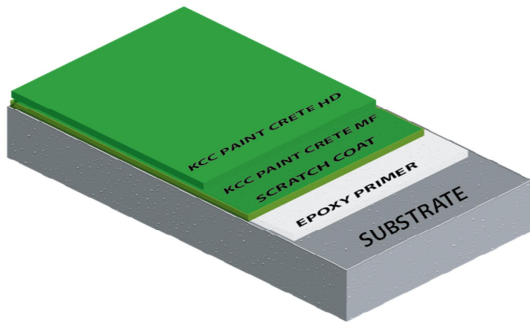
KCC PAINT  
**CRETE**

## 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 <sup>3</sup> | 2.2g/ml   |
| Tensile strength                        | 25 MPa  |
| Compressive strength (28 days)          | 50N/mm  |
| Adhesive strength                       | >2.0 Mpa<br>( Concrete failure )  |
| Flexural strength                       | 15MPa   |
| Service temperature:                    | at 6mm to 9mm : -15 <sup>0</sup> C ~ 130 <sup>0</sup> C(max)<br>at 9mm to 12mm : -40 <sup>0</sup> C ~ 150 <sup>0</sup> 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 <sup>0</sup> C 30min<br>25 <sup>0</sup> C 25min<br>30 <sup>0</sup> C 22min   |
| Material consumption:                   | 2.2kg/m <sup>2</sup> @1mm   |
| Recoating time(28°C)                    | within 14 to 18 hours   |
| Curing time:                            |   |

|                             | 15°C         | 25°C         | 32°C         |
|-----------------------------|--------------|--------------|--------------|
| <b>Human traffic</b>        | <b>36hrs</b> | <b>30hrs</b> | <b>24hrs</b> |
| <b>Light traffic</b>        | <b>48hrs</b> | <b>36hrs</b> | <b>30hrs</b> |
| <b>Fully chemicals cure</b> | <b>7days</b> | <b>6days</b> | <b>5days</b> |



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# KCC-CRETE HD

A SLIP RESISTANCE, HEAVY DUTY POLYURETHANE MORTAR

KCC PAINT  
CRETE

|   | 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/mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5N/mm<sup>2</sup>. 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  |

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#### 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.

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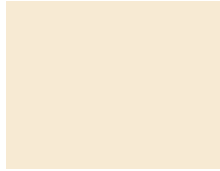
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## INDUSTRIAL FLOORING



KCC- 1013  
OYSTER WHITE



KCC- 1015  
LIGHT IVORY



KCC- 3011  
BROWN RED



KCC-3018  
STAWBERRY RED



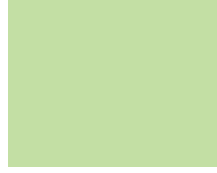
KCC- 3001  
SIGNAL RED



KCC- 0602  
BRIGHT GREEN



KCC- 6002  
LEAF GREEN



KCC- 6019  
PASTEL GREEN



KCC-6021  
PALE GREEN



KCC- 6024  
TRAFFIC GREEN



KCC- 6018  
YELLOW GREEN



KCC- 7035  
LIGHT GREY



KCC- 7037  
DUSTY GREY



KCC- 7038  
MISTY GREY



KCC- 7040  
WINDOW GREY



KCC- 0502  
MID BLUE



KCC- 0503  
DEEP BLUE



KCC- 5015  
SKY BLUE



KCC- 5012  
LIGHT BLUE



KCC- 1003  
SIGNAL YELLOW

## POLYURETHANE SCREED FLOORING MF/HD



KCCP- MF GREEN



KCC- MF RED



KCC- MF CREAM  
/BUTTER CREAM



KCC- MF BUFF



KCC- MF YELLOW



KCC- 7032  
MF LIGHT GREY



KCC- 7039  
MF GREY



KCC- 7042  
TRAFFIC GREY



KCC- 5007  
BRILLIANT BLUE



KCC- 8023  
ORANGE BROWN

NOTE: THE COLOURS ARE MEANT AS A GUIDE ONLY. THIS COLOUR CHART MAY BE APPEAR SLIGHTLY DIFFERENT TO OUR FINISHING PRODUCTS.