



## 5.15 XPert PU CRETE MF

(Self-smoothing polyurethane matt finished, high chemical resistant, high mechanical properties, temperature and slip resistant flooring.)

### PRODUCT DESCRIPTION

XPert PU CRETE MF is a self-smoothing 3 component 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, pharmaceutical industrial, 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, odourless.
- After cured, non-cytotoxic response.

### COLORS:

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

(Exposed to UV may occur colour 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 @ 3mm:	5°C ~ 80°C(max)

Service temperature @ 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 Wear Index in mg/1000 revolutions/1kg	38mg
BS 6920: Part 1 :2000 clause 6 Growth of Aquatic Microorganisms	<2.39 or less
ASTM E96/E96M-10 Water Vapor Transmission, g/hr.m <sup>2</sup>	1.23±
Packaging	20kg
Pot life (working time) 15°C 25°C 30°C	30min 25min 22min
Shelf life & storage (unopened and in good conditions temperature 10°C to 30°C)	12months
Material consumption:	1.9kg/m <sup>2</sup> @1mm
Recoating time(28°C)	within 14 to 18 hours

### CURING TIME:

CURING TIME	15°C	25°C	32°C
Human Traffic	36-hrs	30-hrs	24-hrs
Light Traffic	48-hrs	36-hrs	30-hrs
Fully Cure	7-Days	6-Days	5-Days

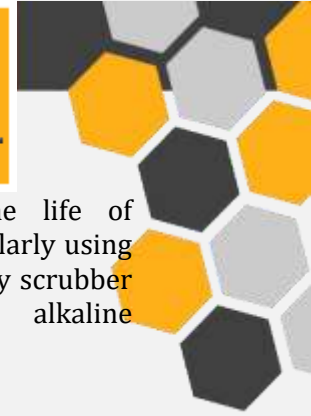
### PACKAGING:

20 - KG Set:

Part A = 3-Kg, Part B = 3-Kg,  
Part C = 14-Kg

### 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 moisture barrier treatment or 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 Part B and Part A into the clean mixing barrel and mix for 5 second by using suitable electrical stirrer (with 750watt High Power Mixer), then only add in the pigmented Part C powder to mix at-least one minute and ten seconds until it fully achieved a homogeneous consistent.

**APPLICATION:**

- Apply XPERT PU Primer (+/- 150  $\mu$  thick) or XPERT PU CRETE MF to do scratch coat (+/- 1mm thick) as a primer for sealing well the substrate porosity.
- Usually within 14~24 hours; when XPERT PU Primer or XPERT PU CRETE MF scratch coat cured, then only allow to do layering XPERT PU CRETE MF Topping onto the XPERT PU Primer or XPERT PU CRETE MF scratch coat.
- Must apply XPERT PU CRETE MF within the pot life (working time), spread the composite matrix with notched squeegee or pin rake and set it to the correct depth or requirement thickness. Immediately release the air/bubble by using spike roller.

**TEMPERATURE CONDITIONS OF APPLICATIONS:**

- Do not apply when the relative humidity exceeds 90% or 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.

**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 advised 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.

**WARRANTY**

This product is warranted to be free of defects in material and workmanship, and conform to XPERT Construction Chemicals ("XPERT") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose.

Satisfactory results depend upon many factors beyond XPERT's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product.

- XPERT shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.
- XPERT's sole responsibility shall be to replace that portion of the product, which proves to be defective.
- Any warranty claim must be made within six (6) months from the date of the claimed breach.
- This limited warranty applies only if the product was properly installed and used according to all instructions.
- This limited warranty applies only if the was properly stored prior to use.