

BC-CRETE MF AS

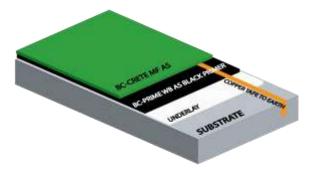
A SELF-SMOOTHING ESD POLYURETHANE SCREED (2-4 mm)

DESCRIPTION:

BC-Crete MF AS is a self-smoothing 3 component thermal shock ESD (Anti-static) polyurethane floor coatings. Seem less, high chemical, high mechanical, conductive properties, heat and slip resistance with matt finish.

PRODUCT FEATURE:

BC-Crete MF AS is high-tech manufacturing requires flooring with conductive properties and use for GMP, hygienic where the subjected to heavy traffic, impact and surface is required without the risk of static build up floor. Areas use for military arsenal, ammunition dump, electronic, semi-conducting device areas, high power station and explosion risk plants.





BENEFITS:

- ➤ Hard wearing, good abrasion resistance.
- High chemical resistance against alkalis, acids and organic solvent.
- High mechanicals and impact resistance
- Resist fungi, mildew and bacteria growth.
- Solvent free, odorless.
- After cured, non-cytotoxic response.
- To eliminate electrostatic discharge from human body, trolley and vehicles. Meet Floor British standard BS2050.

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/cm³ Tensile strength Compressive strength (28 days) Adhesive strength Flexural strength Service temperature:		1.9g/ml 25 Mpa 50N/mm ncrete failure)	
Adhesive strength Flexural strength			
Flexural strength		ncrete failure)	
	at 3mm · 50	>2.0 Mpa (Concrete failure)	
Service temperature:	at 3 mm $\cdot 5^{0}$	21MPa	
	at 3mm : $5^{\circ}C \sim 80^{\circ}C(max)$		
	at 6 mm : -5° C	$C \sim 100^{\circ} C(max)$	
Shore D hardness	79 ~ 84		
Cytotoxicity (2.4 or less)	below < 0.5		
ESD Floor Main Checking Criteria & Spec :			
Surface to Ground (Earth) Rg Spec	$1E+4\Omega \sim 1E+9\Omega$		
(BS-2050)	$(1-9 \ge 10^4 \Omega)$	to 1-9 x 10 ⁹ Ω)	
Surface to Surface (Earth) Rs Spec	1E	C+4Ώ ~ 1E+9 Ώ	
(BS-2050)	$(1-9 \ge 10^4 \Omega \text{ to } 1-9 \ge 10^9 \Omega)$		
Decay Time Through Human Body		Spec: < 20 sec	
Complied ANSI/ESD S-20.20-2007 Human		< 100 VOLTS	
Body Voltage (HBM)			
System Resistance	< 3.5	$5E + 70hm (\Omega)$	
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		1.23±	
Water Vapor Transmission, g/hr.m ²			
Mixing ratio by weight		Part B : Part C	
D 11 01	3 :	0 . 12	
Packing Size	1500	18kg	
Pot life (working time)	15°C	30min	
	25°C	25min	
01 10110 0	30°C	22min	
Shelf life & storage	1000	12months	
(unopened and in good conditions temperature	e 10°C		
to 30°C)		01 / 201	
Material consumption:	1.	.9kg/m²@1mm	
Recoating time(28°C) within 14 to 18 hours Curing time:			
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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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 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 the pigmented Part C powder to mix at-least one minute and ten seconds until it fully achieved a homogeneous consistent.

APPLICATION:

- Apply BC-Prime WB AS $(+/-150 \mu \text{ thick})$ as a primer for sealing well the substrate porosity.
- Usually within 14~24 hours; when BC-Prime WB AS coat \triangleright cured, then only allow to do layering BC-Crete MF AS Topping onto the BC-Prime WB Primer AS.
- Must apply BC-Crete MF AS within the pot life (working \geq 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% on when the surface to be coated is less than 5% above the dew point.
- Do not apply temperatures below 5°C and temperatures \triangleright 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 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 :

Best Crete 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.

BEST CRETE (M) SDN BHD (969553-A) (GST/BCP NO: 001222787072

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