

BC-GARD EM

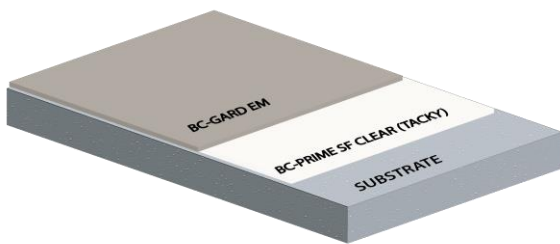
A THREE COMPONENT EPOXY MORTAR SCREED

DESCRIPTION:

BC-Gard EM is a solvent free Underlayment AOS Moisture Barrier; three component Epoxy resin filled with Filler silica sand mixture apply 3mm – 10mm thick. Epoxy mortar screeds are not color stable if exposed to UV light or under influence of weathering. We recommend applying a color stable coating.

PRODUCT FEATURE:

Areas for use in industrial floor, warehouse, chemical plants, manufacturing areas and car parks. To provide where the subjected to heavy traffic, impact and chemical areas.



BENEFITS:

- Solvent free, low odor.
- Seamless & hygienic finish when sealed.
- Low maintenance.
- High impact resistance.
- Heavy duty for traffic.
- Excellent chemical resistance

COLORS:

- Natural.

TECHNICAL DATA

Density at 28 ⁰ C g/ml(mixed)	2.2±0.1g/cm ²
Tensile strength	22N/mm ²
Compressive strength (28 days)	70N/mm ²
Adhesive strength	>2.0Mpa (concrete failure)
Flexural strength	30N/mm ²
Impact Resistance (BRE Screed Tester)	0.3mm
Mixing Ratio by Weight	Part A : Part B : Part C 4 : 1 : 45
Pot life 28 ⁰ C (Open time for working with spike roller)	45min
Packing Size	50kg/set
Shelf life & storage (unopened and in good conditions temperature 5 ⁰ C to 30 ⁰ C)	12months
Material consumption	2.2kg/mm ²

Curing time:

	20 ⁰ C	30 ⁰ C
Light Traffic	24 hours	16 hours
Full Traffic	72 hours	48 hours
Fully Cured	10 days	7days

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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 (concrete failure)
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Crack and hollows should be properly remedied.
- Rough contaminations and high spots can be removed by grinding.
- The substrate should be clean and free from laitance, oil, dust, paint residues, algae, loose and friable material must be completely removed from all surfaces before application of the product.

MIXING:

Pour total Part B into the Part A container and mix both liquid part thoroughly for one minute by using a suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved, transfer PART A & PART B (mixed) to a forced action mixer e.g. a Crete angle and mix with aggregate until uniform.

APPLICATION:

- Apply BC-Prime SF can be use by suitable roller as a primer for sealing well the substrate porosity.
- Usually within 8 hours ~ 14hours; BC-Prime SF cured, then only allow to do another coat of BC-Prime SF.
- Apply the mixed BC-Gard EM, within 1 hours of priming (i.e. while the priming coat is still tacky), and spread the screed onto the primer floor with screed box as per requirement thickness, compact and finish using a steel blade trowel or power float.

SEALING:

Can apply one or two coat of BC-Gard SC Compound to do the scratch coat to seal the porous surface.

CLEANING OF TOOLS:

Clean all the tools and application equipment with BC-Washing thinner before the product hardens.

Maintenance and care after cure :

We recommend basic cleaning and maintenance will prolong the life of epoxy 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-wear 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.