BC-GARD SC UNDERLAY

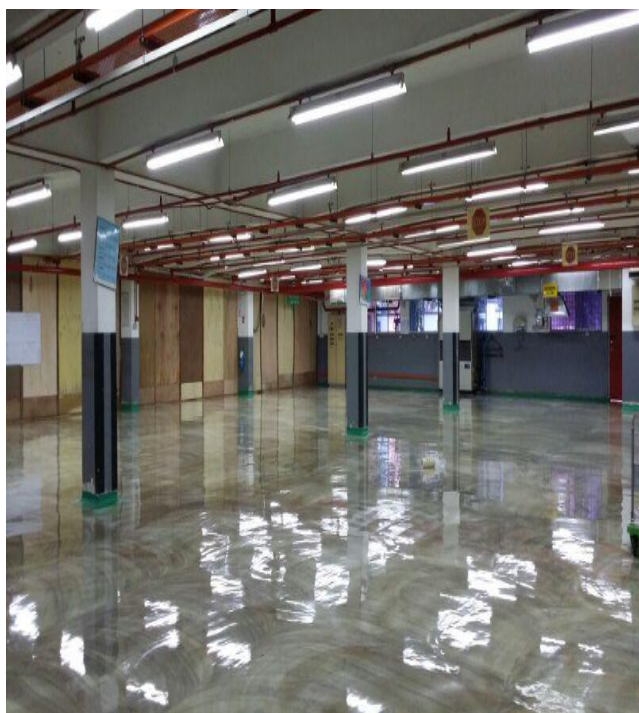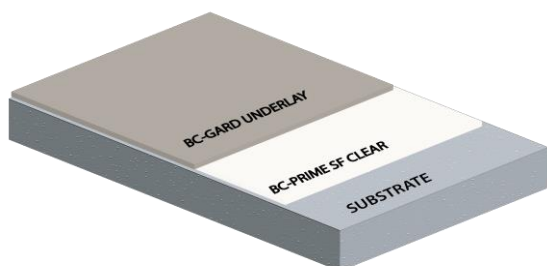**A THREE COMPONENT EPOXY SELF-SMOOTH**

DESCRIPTION:
BC-Gard Underlay is a solvent free three component Epoxy resin filled with Filler and silica sand mixture apply 0.5mm – 2mm thick. BC-Gard Underlay are not color stable if exposed to UV light or under influence of weathering. We recommend to apply a color stable coatings.

PRODUCT FEATURE:
Areas for use in industrial floor, warehouse, chemical plants, manufacturing areas and car parks. BC-Gard Underlay texture can be use as scratch coat and underlayment for adjusting and leveling of roughness on the floor surface before application of the final floor finish. 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 28^0C g/ml(mixed)	1.6 ± 0.1g/cm²
Tensile strength	22N/mm²
Compressive strength (28 days)	50N/mm²
Adhesive strength	>2.0Mpa (concrete failure)
Flexural strength	30N/mm²
Impact Resistance (BRE Screed Tester)	0.3mm
Mixing Ratio by Weight	Part A : Part B : Part C 4 : 1 : 7
Pot life 28^{0}C (Open time for working with spike roller)	30min
Packing Size	12kg/set
Shelf life & storage (unopened and in good conditions temperature 5^{0}C to 30^{0}C)	12months
Material consumption	1.6kg/mm/m²

Curing time:

	20˚C	30˚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 and add component C mix thoroughly for at least 2 minutes by using a suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved.

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 DP cured, then only allow to do BC-Gard Underlay.

➢ Apply the mixed BC-Gard Underlay, spread the composite matrix with notched squeegee or pin rake and set it to the correct depth on requirement thickness. Immediately with a spiked roller to ensure uniform thickness and remove entrapped air.

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-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.