

## BC-GARD SF 20

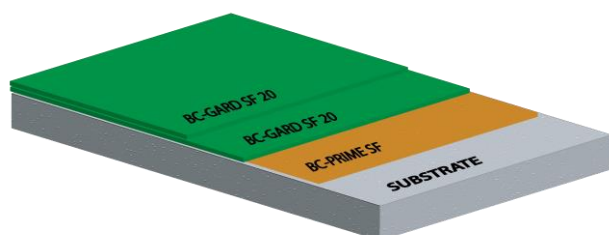
### A TWO COMPONENT SOLVENT FREE EPOXY COATING

#### DESCRIPTION:

BC-GARD SF 20 is a high performance developed specifically as chemicals and an abrasion resistant for areas with light or high traffic; two component solvent-free colored epoxy coating. It makes for industrial floors dust free, joint less, glossy finishing and available in a wide range of attractive colors.

#### PRODUCT FEATURE:

Area of use are light duty industrial for dry process where the floor is subjected to pallet tuck, trolley and fork lift traffic areas, car park deck, include laboratories, electronic and clean rooms, automotive assembly, aircraft hangar, garages, pharmaceutical, printing pulp paper, mills, refineries and other industrial plants sectors where chemical resistance and required.



#### BENEFITS:

- Seamless, monolithic application.
- Solvent Less, Low Odor – and V.O.C
- Hygienic, easy to clean.
- High chemical resistance to wide range of chemicals.
- Abrasion resistant, against medium traffic and trolley movement.
- Hard wearing floors finish
- Wide range of colors
- Complied with BC6920 requirement

#### COLORS:

- RAL K5 Classic Color Chart

#### FINISHING:

- Gloss

#### TECHNICAL DATA

Density ( 28°C ) g/ml <sup>2</sup> (mixed)	1.40±0.05g/ml
Adhesive strength	>1.5N/mm <sup>2</sup> ( Concrete failure )
Tensile strength	15N/mm <sup>2</sup>
Number of Coats	2 or 3
Compressive strength (28 days)	50N/mm <sup>2</sup>
Flexural strength	35N/mm <sup>2</sup>
Shore D hardness	75 ~ 80
Temperature Resistance	up to 80°C
Water Permeability	Nil-Karsten test (impermeable)
Cytotoxicity (2.4 or less)	below <0.5
ASTM D 4060 -10 Taber Abraser	64mg
Wear Index in mg/100 revolutions/1kg	
BS 6920 : Part 1:2000	<2.39 or less
Dissolved Oxygen difference (MDOD),mg/L	
Mixing Ratio by Weight	Part A : Part B 4 : 1
Packaging	5kg & 20kg & 25kg
Pot life (working time)	30min
Shelf life & storage (unopened and in good conditions temperature 10°C to 30°C)	12months
Recoating time(28°C)	10 hours min@30°C
Material consumption(mixed)	5.5m <sup>2</sup> /kg@166μ
Curing time:	

	15°C	25°C	32°C
<b>Human traffic</b>	24hrs	20hrs	18hrs
<b>Light traffic</b>	36hrs	30hrs	24hrs
<b>Fully chemicals cure</b>	10days	7days	7days



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#### 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 4%, apply BC-GARD EM epoxy mortar (compressive strength 60N/mm<sup>2</sup>) 4-5mm thick or Apply BC-Cem MB 2-3mm 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 :

Stir Part A mix for 30 seconds by using a suitable electrical stirrer (with 750 watt High power mixer), then add all of Parts B (Hardener) and mix both liquid parts thoroughly for 2 minute until it fully achieved a homogeneous.

#### APPLICATION :

- Apply BC-Prime SF 20 @ 0.2kg/m<sup>2</sup> as a primer for sealing well the substrate porosity.
- Usually within 8-14hours; BC-Prime SF cured, Then only allow to do layering BC-GARD SF 20. Topping onto the BC- Prime SF Primer.
- Apply BC-GARD SF 20 within the pot life (working time), can be applied by brush or 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 above 40°C

#### 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.