POLYMERS

Your Perfect Flooring Solutions

BC-GARD SL AS

A SELF - SMOOTHING ESD EPOXY TOPPING

DESCRIPTION:

BC-GARD SLAS is a Self-smoothing ESD (Anti-static) epoxy resin floor finish applied at 1mm~2mm. seam less, high mechanical, conductive properties, good abrasion resistance glossy finishing and available in a wide range of attractive colour.

PRODUCT FEATURE:

BC-GARD SLAS is high-tech manufacturing requires flooring with conductive properties, and use for GMP, Hygienic where the subjected to medium 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. Clean Room, warehouse, Assembly Automotive Plant, Aircraft Hangar, Electronic Plant, research and Development Lab

BENEFITS:

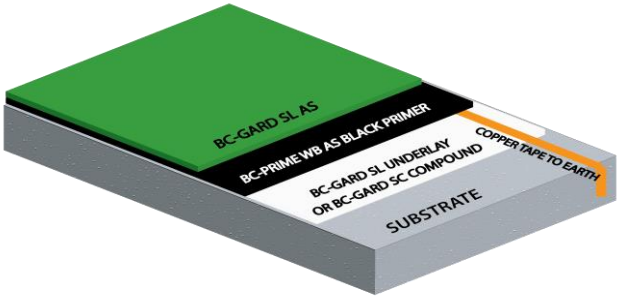
- Seamless, monolithic application
- Solvent free, low odor- and V.O.C
- Hygienic, easy to clean
- High chemical resistance to wide range of chemical.
- Abrasion resistant, against medium traffic and trolley movement.
- Hard wearing floors finish
- Wide range of colours
- To eliminate electrostatic discharge from human body, trolley and vehicles. Meet British standard BS 2050
- Complied with BS6920 requirement

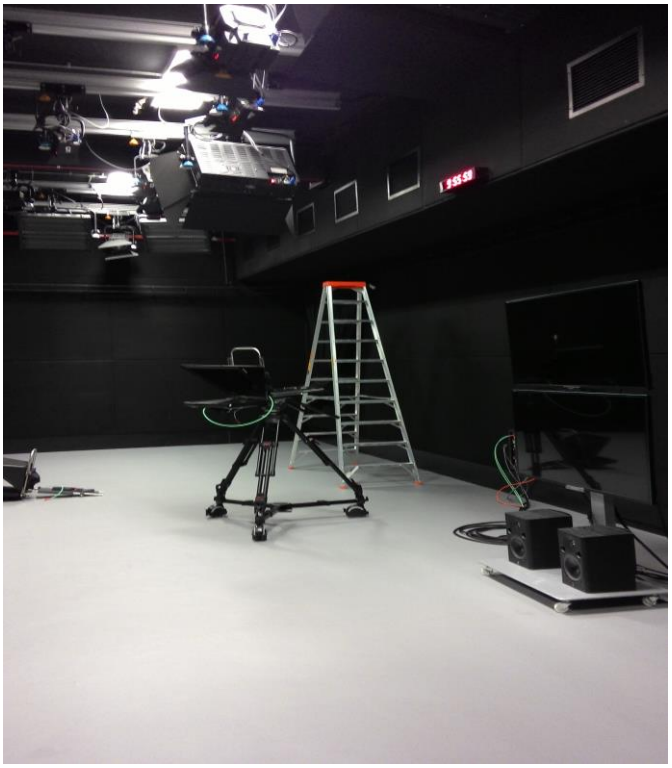
COLORS:

- RAL K5 Classic Colour Chart available

FINISHING:

- Gloss





TECHNICAL DATA

Density (28°C) g/ml² (mixed)	1.40±0.05g/ml
Adhesive strength	>2.0N/mm² (Concrete failure)
Tensile strength	25N/mm²
Compressive strength (28 days)	55N/mm²
Flexural strength	35N/mm²
Shore D hardness	75 ~ 82
Temperature Resistance	up to 70˚C
Water Permeability	Nil-Karsten test (impermeable)
Cytotoxicity (2.4 or less)	below <0.5
Abrasion Resistance 1000 cycles weight loss	5mg
Decay Time Through Human Body	Spec:<20 sec
Complied ANSI/ESD S-20.20-2007	
Human Body Voltage (HBM)	< 100 VOLTS
System Resistance	< 3.5E + 7ohm (Ω)
Mixing Ratio by Weight	Part A : Part B 9 : 3
Pot life (working time)	30min
Packaging	12kg
Shelf life & storage (unopened and in good conditions temperature 10^0C to 30^0C)	12months
Material consumption(mixed)	1.4kg/m²/mm

Curing time:

	15°C	25°C	32°C
Human traffic	**30hrs**	**28hrs**	**24hrs**
Light traffic	**48hrs**	**36hrs**	**30hrs**
Fully chemicals cure	**10days**	**7days**	**7days**

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ESD Floor Main Checking Criteria & Spec :

CONDUCTIVE

Surface to Ground (Earth) Rg Spec (BS-2050)	5E+4 MΩ ~ 5E+6 MΩ (5×10^4 mega-ohm to5×10^6 mega-ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	5E+4 MΩ ~ 5E+6 MΩ (5×10^4 mega-ohm to5×10^6 mega-ohm)

DISSIPATIVE

Surface to Ground (Earth) Rg Spec (BS-2050)	5E+6 MΩ ~ 5E+9MΩ (5×10^6 mega-ohm to 5×10^9 mega-ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	5E+6MΩ ~ 5E+9MΩ (5×10^6 mega-ohm to 5×10^9 mega-ohm)

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 4%, apply BC-GARD EM epoxy mortar (compressive strength 60N/mm²) 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), than 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 WB AS Black primer@ 0.2kg/m² as a primer for sealing well the substrate porosity.
- Usually within 8-14hours; BC-Prime WB AS Black primer cured, Then only allow to do layering BC-GARD SLAS. Topping onto the BC-Prime WB AS Black primer.
- Apply BC-GARD SLAS 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% on when the surface to be coated is less than 5% above the dew point.
- Do not apply temperatures below5°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-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 products 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.

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