

# X-Tech AntiStatic SLB

## Conductive and dissipative breathable epoxy flooring

### Product Description

X-Tech AntiStatic SLB is a three layer breathable system comprising a water dispersed primer, a water dispersed epoxy base coat and a self smoothing epoxy top coat that produces a conductive or dissipative floor. When used with X-Tech Conductive Base Coat the floor will have a point to point resistance and a resistance to ground of between  $5 \times 10^4$  to  $1 \times 10^6$  Ohms. When used with X-Tech Dissipative Base Coat the floor will have a point to point resistance and a resistance to ground of between  $5 \times 10^6$  to  $1 \times 10^9$  Ohms.

### Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Fast application
- Easy to clean finish
- Resistant to wide range of chemicals
- High impact and abrasion resistance
- Available in a range of colors
- Control of static electricity to earth

### Typical Uses

- Electronic manufacturing and assembly plants
- Hospitals
- Clean rooms
- Chemical handling and processing areas

### Laboratory Test Data

Property	Typical Results
Compressive strength EN 196-1	>35MPa
Flexural strength EN 196-1	>10MPa
Tensile strength EN 196-1	>5MPa
Bond strength ISO 4624*	>2MPa

Above results were obtained after 14 days cure.

\*Depends on substrate quality

### Application Properties

Application thickness	2 to 6mm
Application temperature range	10 to 35C
Pot life at 20C (68F) X-Shield WD Primer X-Tech Conductive or Dissipative Base Coat X-Tech AntiStatic SLB Top Coat	120 mins 120 mins 120 mins

### Volatile Organic Content

Primer = 0 g/L

Base Coat = <20 g/L

Top Coat = <50 g/L

### Specification Compliance

SCAQMD Rule 1113	ASTM F150
LEED NC2009 IEQ 4.2	BS 2050
IEC/BS EN 61340	BS 5958
ANSI/ESD S7.1	DoA 385-64
EFNARC Type 5A & B (WVT)	FeFRA Type 5 MD/HD

### Chemical Resistance

X-Tech AntiStatic SLB has good resistance to the following:

10% Lactic acid	Petrol and oils
Concentrated bleach	Greases
Saturated sugar solution	10% Ammonia
Saturated urea solution	

### Colors

RAL1000 Green beige	RAL7032 Pebble grey
RAL1002 Sand yellow	RAL7038 Agate grey
RAL3002 Carmine red	RAL7042 Traffic grey

### Theoretical Coverage

X-Tech Conductive or Dissipative Base Coat: 6.6m<sup>2</sup> per liter at 150 microns wft

X-Tech AntiStatic SLB Top Coat: 2L per m<sup>2</sup> at 2mm wft.

### Packaging

X-Tech Conductive or Dissipative Base Coat: 4.5 and 18L packs.

X-Tech AntiStatic SLB Top Coat: 18L pack

### Shelf Life

18 months when stored at 35C or less in a frost-free, dry and shaded area.

### Installation Guidelines

Epoxy flooring should only be carried out by experienced contractors. NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work and includes requirements for testing of electrical resistance, earthing of the system and how to deal with day and live

joints. The information below is a summary intended for guidance only.

### Surface Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by captive blasting to produce a lightly exposed aggregate surface i.e. a ICRI CSP 4 or 5 surface profile. Any bug holes (blow holes) should be filled with X-Shield BugFill. If substrate is not level or is uneven, level using X-Tech LevelCem HD.

### Moisture Testing

The concrete slab should be tested for moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. (test kits are available for purchase from NCC X-Calibur). If the MVER is over 6.80 Kg/93m<sup>2</sup>/24h (15lbs/1000ft<sup>2</sup>/24h) then contact NCC X-Calibur for guidance.

### Priming

The prepared surface should be primed with X-Shield WD Primer. The base and hardener have to mixed until homogenous. The mixed primer should then be applied to the prepared substrate with a stiff brush or roller. Do not over apply or allow puddles of primer to form. If the primer is absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free. Allow the primer to become tack-free before application of X-Tech Conductive or Dissipative Base Coat.

### Mixing and Application of the Base Coat

Both of the liquid components should be briefly stirred to ensure that any settlement products are fully suspended. Pour the base component into the hardener component and mix using a slow speed drill and approved mixing paddle for 2 minutes. When mixed the Base Coat should be applied to the primed concrete using a medium hair roller. Do not pour directly onto the substrate as this may result in occasional patches of thick material.

### Mixing and Application of the Top Coat

Both of the liquid components should be briefly stirred to ensure that any settlement products are fully suspended. Mixing should be carried out using a forced action mixer such as a Mixit 25 (mixers are available to purchase or rent from NCC X-Calibur). Mix the components until homogenous. Spread the mixed product onto the tack-free primer, using the required thickness notched vee rake followed by a pin leveller set to achieve a uniform thickness of 2 to 6mm. Immediately after spreading, roll using a spiked roller to release trapped air and remove trowel marks. Rolling should be completed within 20 minutes.

### Cleaning

Tools should be cleaned immediately after use and before the resin sets, using water. Once the resin has set, it can only be removed by mechanical means.

### Limitations

Will change color when exposed to direct sunlight. Do not apply below 5C or above 35C. Avoid skin contact. Do not apply at thicknesses greater than those mentioned. Maximum ambient relative humidity of 85%. Do not expose the surface to water or cleaning solutions until fully cured. If any dust is present during application "fish eyes" may occur.

### Health and Safety

**This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website [www.ncc.com.eg](http://www.ncc.com.eg)**

### Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit [www.ncc.com.eg](http://www.ncc.com.eg) for a full list of NCC X-Calibur ATs.

### Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.ncc.com.eg](http://www.ncc.com.eg) to ensure you have the latest version.

### Warranties

NCC X-Calibur supplies products that comply with the proper-ties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the in-stallation or end use of the products. Any suspected de-fects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemistry Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



Quality Statement  
All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004 , ISO 9001:2000.



Hotline: 16960 E-mail: [info@ncc.com.eg](mailto:info@ncc.com.eg) Website: [www.ncc.com.eg](http://www.ncc.com.eg)

[www.x-calibur.us](http://www.x-calibur.us)