

# X-Tech AntiStatic CS

## Conductive epoxy coating system

### Product Description

X-Tech AntiStatic CS is a three layer system comprising a solvent free primer, a water dispersed epoxy undercoat and a water dispersed epoxy topcoat that produces a conductive coating system with resistance between  $5 \times 10^4$  to  $1 \times 10^6$  Ohms.

### Advantages

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

### Typical Uses

X-Tech AntiStatic CS is used in light to medium duty industrial and commercial situations to provide an easy-to-clean coating finish in locations such as:

- Electronic manufacturing and assembly plants
- Hospitals
- Clean rooms
- Chemical handling and processing areas, utilising hazardous dust and chemicals.

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Application Properties

<b>Application thickness (Topcoat)</b>	100 microns wet
<b>(Undercoat)</b>	200 microns wet
<b>Application temperature range</b>	5 to 35C
<b>Pot life at 25C</b>	
<b>Primer</b>	45 mins
<b>Undercoat</b>	90 mins
<b>Topcoat</b>	90 mins

Pot life will reduce by half for every 10C increase in temperature and double for every 10C drop in temperature.

### Chemical Resistance

X-Tech AntiStatic CS has good resistance to the following chemicals:

- 10% Lactic acid
- 10% Sulphuric acid
- Concentrated bleach

Saturated sugar solution  
Saturated urea solution  
White spirit  
Petrol and oils  
Greases  
10% Ammonia

### Specification Compliance

ANSI/ESD 57.1 (conductive)  
BS2050

### Volatile Organic Content

Primer <10 g/L  
Undercoat <50 g/L  
Topcoat <50 g/L

### Colors

Topcoat is available in light green, light grey - RAL 7035, blue, red, beige and off white.

### Theoretical Coverage

X-Tech AntiStatic CS Undercoat: 22.5m<sup>2</sup> per pack (200 microns wft.)

X-Tech AntiStatic CS Topcoat: 45m<sup>2</sup> per pack (100 microns wft.)

Coverage rates exclude wastage.

### Packaging

X-Tech AntiStatic CS Undercoat: 4.5 liter pack. X-Tech AntiStatic CS Topcoat: 4.5 liter pack.

### Shelf Life

18 months when stored at 35C (95F) or less in a frost-free, dry and shaded area.

### Installation Guidelines

Epoxy coating 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 or render should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. Concrete surfaces should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes (blow holes) should be filled with X-Shield BugFill. Rendered or board surfaces require no mechanical preparation.

## Priming

The prepared surface should be primed with X-Shield SF Primer. The base and hardener have to be mixed until homogenous. The mixed primer should then be applied to the prepared substrate with a stiff brush or roller. Do not over apply. 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 AntiStatic CS Undercoat.

## Mixing and Application of the Undercoat

Both of the liquid components should be briefly stirred to ensure that any settlement products are fully suspended. Pour the base component into a clean mixing vessel and while stirring slowly, add hardener component and mix for 2 minutes. The Undercoat should be mixed with a slow speed drill and suitable mixing paddle. When mixed the Undercoat should be applied to the primed substrate using a medium hair roller from a roller tray to the correct coverage.

## Mixing and Application of the Topcoat

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 slow speed drill and suitable mixing paddle. Mix the components until homogenous. When mixed the topcoat should be applied to the primed substrate using a medium hair roller from a roller tray in a single coat to completely hide the Undercoat in order to ensure a uniform color the Topcoat must be applied well within the stated pot life. If it is applied at the limit of each pot life color variation will occur.

## 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

Apply only a single coat of the topcoat  
Will change color when exposed to direct sunlight.  
Do not use solvent to finish the surface.  
Do not apply within 3C of the dewpoint or if it is

within 5C of the dewpoint and dropping.

Do not apply below 5C or above 35C.

Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.

Not suitable for heavy duty applications.

## 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 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 properties 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 installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems 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 Systems 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.



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