



X-Tech AntiStatic SLE

Conductive epoxy flooring system

Product Description

X-Tech AntiStatic SLE is a three layer system comprising a solvent free primer, a water dispersed epoxy undercoat and a self smoothing epoxy floor topping that produces a conductive floor with resistance to grow between 5×10^4 to 1×10^6 Ohms.

Advantages

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

Typical Uses

X-Tech AntiStatic SLE is used in industrial and commercial situations to provide an easy-to-clean floor finish able to withstand mechanical abrasion and the spillage of aggressive chemicals in locations such as:

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

Property	Typical Results
Compressive strength	>60MPa (8700psi)
Flexural strength	>30MPa (4350psi)
Tensile strength	>20MPa (2900psi)
Bond strength*	>5MPa (725psi)

Laboratory Test Data

Above results were obtained after 7 days cure.

*Depends on substrate quality

Application Properties

Application thickness	2mm
Application temperature range	5-35°C
Pot life at 25°C (77F)	
Primer	45 mins
Undercoat	90 mins
Topcoat	45 mins

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2
ANSI/ESD S7.1 (conductive)
ASTM F150 (conductive)
BS 2050

Volatile Organic Content

VOC Topcoat = <50 g/L
Undercoat = <20 g/L

Chemical Resistance

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

10% Lactic acid
50% Sulphuric acid
Concentrated bleach
Saturated sugar solution
Saturated urea solution
White spirit
Petrol and oils
Greases
10% Ammonia

Colours

Light green, light grey - RAL 7035, blue, red, beige and off white.

Theoretical Coverage

X-Tech AntiStatic SLE Undercoat: 5m² per liter
X-Tech AntiStatic SLE Topcoat: 2 liter per m² at 2mm.
X-Shield SF Primer: 6.6m² per liter at 150 microns film thickness.

Packaging

X-Tech AntiStatic SLE Undercoat 4.5liter pack.
X-Tech AntiStatic SLE Topcoat: 10 liter (2.6 gallon) pack.
X-Shield SF Primer: 1, 5 and 15 liter packs.
1 quart and 1 gallon packs - USA.

Shelf Life

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

Installation Guidelines

Epoxy flooring should only be carried out by experienced contractors. 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 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.

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 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 AntiStatic SLE 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 concrete using a medium hair roller from a roller tray to the correct coverage. Do not pour directly onto the substrate as this may result in occasional patches of thick material.

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 approved mixing paddle, or forced action mixers such as a Mixal or Cretangle. Mix the components until homogenous. Spread the mixed product onto the tack-free prime, using a steel float to achieve a uniform thickness of between 1.5 and 2.5mm. 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 a proprietary cleaner. Once the resin has set, it can only be removed by mechanical means.

Limitations

Will change color when exposed to direct sunlight.
Do not use solvent to finish the surface.
Do not be apply within 3°C of the dewpoint or if it is within 5°C of the dewpoint and dropping.
Do not apply below 5°C or above 35°C
Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.
Avoid skin contact.
Do not apply at thicknesses greater than those mentioned.

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.
E-mail taltech@norcrossa.com or call 0860 000 825 for a copy of the MSDS.

Authorized Technical Specialist

Please note that only TAL & X-Calibur Authorized Technical Specialists are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

Datasheet Validity

TAL & X-Calibur make modifications to its product datasheets on a continuous basis. To ensure you have the latest version, e-mail taltech@norcrossa.com or call 0860 000 825.

Important Notice

TAL believes the information on this sheet to be correct - but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. The only obligation of TAL shall be to replace any of this product proved to be defective in material or workmanship. TAL shall not be liable for any injury, loss or damage, direct or inconsequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchant ability or any other warranty, express or implied.

Manufactured

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