X-CALIBUR FLOOR SCIENCE

Technical Data Sheet

X-Tech AntiStatic SLE

Conductive and dissipative solvent free epoxy flooring system

90070918

Product Description

X-Tech AntiStatic SLE is a three layer system comprising an epoxy primer, a water dispersed epoxy base coat and a self smoothing solvent free epoxy top coat that produces a conductive or dissipative floor. The conductive grade (CG) provides a floor with a point to point resistance and a resistance to ground of between 5 x 10^4 to 1 x 10^6 Ohms. The dissipative grade (DG) provides a floor with a point to point resistance and a resistance to ground of between 5 x 10^6 to 1 x 10^9 Ohms.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Fast application
- Easy to clean gloss finish
- Resistant to wide range of chemicals
- High impact and abrasion resistance

Typical Uses

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

Laboratory Test Data

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

Above results were obtained after 7 days cure.
*Depends on substrate quality

Application Properties

Application thickness	1.5mm to 2mm (60 to 80mils)
Application temperature range	10 to 35C (50 to 95F)
Pot life at 25C (77F)	
X-Prime SF	75 mins
X-Prime MT100	120 mins
X-Tech AntiStatic SLE Base Coat	90 mins
X-Tech AntiStatic SLE Top Coat	45 mins

Volatile Organic Content

X-Prime SF = 0 g/L
X-Prime MT100 = <10 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	FeFRA Type 5 MD/HD

* when used with X-Prime SF

Chemical Resistance

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

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

Contact X-Calibur for details of resistance to specific chemicals

Colors

RAL 7035 Light grey	RAL 1017 Saffron Yellow
RAL 7042 Traffic Grey A	RAL 6017 May Green
RAL 7043 Traffic Grey B	RAL 3002 Carmine Red
RAL 7001 Silver Grey	RAL 5017 Traffic Blue

Theoretical Coverage

X-Prime SF: 10m^2 (107ft^2) per liter at 100 microns wft.
X-Prime MT100: 5m^2 (53ft^2) per liter at 200 microns wft.
X-Tech AntiStatic SLE Base Coat: 6.6m^2 (70ft^2) per liter at 150 microns wft.
X-Tech AntiStatic SLE Top Coat: 1.5L per m^2 at 1.5mm (60mils).

Packaging

X-Prime SF & X-Prime MT100: 1, 5 & 15L packs.
X-Tech AntiStatic SLE Base Coat: 4.5 and 18L packs
X-Tech AntiStatic SLE Top Coat: 17L packs.

Shelf Life

18 months when stored at 35C (95F) 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.