www.john-lord.co.uk
enquiries@john-lord.co.uk
0161 764 4617

John L. Lord & Son Ltd
Ainsworth Road, Bury
Lancashire, BL8 2RS

Technical Data Sheet

EPIGARD SL AntiStatic

Product Description

Epigard SL AntiStatic is a specially formulated self-levelling static dissipative resin floor screed that resists the build up of static charges in accordance with BS EN 1081:1998. This system is suited to environments where static electricity must be controlled. Epigard SL AntiStatic has a smooth gloss finish and is laid between 2mm and 3mm thick depending upon in-service requirements.

Key Benefits

- Static dissipative
- Colour stable
- Easy to clean, gloss finish
- Non tainting
- Chemical resistant
- Highly durable, wear and impact resistant

Technical Data

John L. Lord & Son Ltd is an ISO 9001:2008 accredited company and all products are manufactured strictly to ISO quality standards.

Performance Data

Compressive Strength:	50 N/mm^2
Flexural Strength:	18 N/mm^2
Tensile Strength (ISO R527):	15 N/mm^2
Bond Strength to Concrete:	Exceeds cohesive strength @ 30N/mm^2
Coeff. Thermal Expansion (ASTM C531):	$^{\circ}C^{-1}3.4x10^{-5}$
Leakage Resistance (BS 2050):	$5x10^4$-10^8 ohms
Temperature Resistance:	Constant up to 60°C Occasional spillages of up to 70°C at 2.5mm+ thickness
Flash Steam Cleanable:	No
Water Permeability:	Nil

All figures are measured and expressed under laboratory conditions: Actual performance may vary from the above values depending upon site conditions.

Physical Properties

Complies with BS 8204-6 / FeRFA Type 5, System Make-Up:

Primer(s):	Copper conductor strip affixed to substrate 1 coat Epigard SL AntiStatic primer (and where necessary 1 coat Epigard Fastrac pre-primer)
System:	1 application Epigard SL AntiStatic
Sealer Coat(s):	None
Optional Variations:	None

System Details:

Finish:	Smooth/semi-gloss
Thickness:	2mm to 3mm
Colour:	Wide colour range plus bespoke colours available

Chemical Resistance

Resistant to a wide range of acids, alkalis, greases, fuels, salt solutions and some solvents. For full details consult the John Lord Technical Dept.

Curing Time

Floor can go into service after the following minimum cure periods at 18°C and above:

Light Traffic:	48 hours
Heavy Traffic:	72 hours
Full Chemical Cure:	7 days

Shelf Life and Storage

The product should be kept in its original unopened container until use.

The product should be stored in weather tight conditions at temperatures between 10°C and 25°C, avoiding direct sunlight. Under these conditions this product has a shelf life of up to 12 months.

Other Products

The following products from the John Lord Group are recommended for use with Epigard SL AntiStatic:

- Epigard resin render screed

EPIGARD SL AntiStatic

Application Information

John Lord recommends that all products are installed by their own Contracts Department who provide a professional service with experienced Project Management supervision and skilled, trained and NVQ/CSCS approved employees.

Suitable Applications

- Electronics Manufacturing, Assembly and Testing
- Pharmaceutical Production Facilities
- Laboratories and Clean Rooms
- Hospitals
- Ordnance Facilities
- Nuclear Industry
- Aerospace Industry
- Specialist Dry Processing

Substrate Suitability and Preparation

A separate technical data sheet is available on 'Substrate Suitability and Preparation'.

Application Temperature

Correct temperature is critical to the successful application of Epigard SL AntiStatic and air temperatures should be maintained between 18ºC and 23ºC during the application and curing period of this product. We also strongly recommend that the application area is heated to temperatures of between 18ºC and 23ºC for up to 24 hours prior to application to allow the ambient and substrate temperatures to regulate before the application commences. Materials should also be kept in a warm area of 15ºC minimum temperature for 2-3 days prior to application. De-humidifiers must be used where high humidity conditions prevail. Ensure adequate ventilation during application.

Priming

A matrix using self-adhesive copper conductor strips should be applied to the substrate and connected to a suitable earthing point prior to priming.

The dry, prepared, dust-free substrate should be primed with roller applied Epigard SL AntiStatic carbon filled primer bond coat and allowed to cure for 16 hours prior to overlaying with Epigard SL AntiStatic (subject to conductivity readings). Cementitious based substrates which are known to have a high porosity or void content should be primed with Epigard Fastrac primer and allowed to cure for 12 hours prior to the application of the copper conductor strips and coat of Epigard SL AntiStatic primer.

System Application

Before application of the 4-part Epigard SL AntiStatic system, resistance readings, in accordance with BS EN 1081:1998, of the dry primer layer must comply with a maximum of $5x10^4$ ohms. Parts A and B of the supplied materials should be pre-mixed using a slow speed drill and paddle; Part C should be added gradually until the mixture is homogenous. Part D should then be added and mixed for no longer than one minute.

The mixed Epigard SL AntiStatic should be poured immediately onto the primed substrate and hand floated out to the desired thickness (do not allow any remaining mixture to settle before pouring). The material should be allowed to self-smooth before spike rolling the surface in a uniform direction as much as required.

Joints

All known expansion joints should be followed through the resin floor finish using Epiflex Jointing Mastic. If concrete movement or cracking takes place after application then reflective cracking of the topping may occur.

Note: The location of expansion joints must be considered in relation to the positioning of the copper strips and their connection to earthing points.

In-Service Maintenance

Good housekeeping and regular cleaning can considerably extend the service life of a resin screed floor and will enhance the floor's appearance and reduce soiling tendencies.

Suitable cleaning methods for this product include:

- Rotary scrubbing machine or warm water washing (up to 60ºC) with suitable detergent products – see John Lord Cleaning Guide for further details.

Statement of Responsibility

The technical data and application information within this John Lord Technical Data Sheet is provided as an introduction to the system only and may vary according to on-site or environmental conditions. As the information provided is of a general nature, no guarantee is implied and it is the responsibility of the client or user to discuss in detail with John L. Lord & Son Ltd the suitability of the product for a particular application. John L. Lord & Son Ltd cannot accept any responsibility for work and the subsequent performance of their systems that are not controlled by their own contracting services.

John L. Lord & Son Ltd reserve the right to alter information contained in this document without prior notification; it is the responsibility of the client or user to obtain the most recent issue.