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Technical Data Sheet

EPIGARD

SL Antistatic

DESCRIPTION

Epigard SL Antistatic is a specially formulated self-levelling, static dissipative flooring system, which resists the build up of static charges in accordance with B.S EN 1081:1998. This system is suited to environments where static electricity must be controlled. Epigard SL Antistatic has a smooth, glossy finish and can be laid at thicknesses of between 2.5mm and 5mm depending on in-service requirements.

KEY BENEFITS

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

TECHNICAL DATA

John Lord is an ISO 9001:2000 accredited company and all John Lord products are manufactured strictly to ISO quality standards.

Performance Data

Compressive Strength:	75-80 N/ mm^2
Flexural Strength:	30 N /mm^2
Tensile Strength (ISO R527):	15.0 N /mm^2
Coeff. Thermal Expansion (ASTM C531 Part 4.05):	$°C^{-1}$ $3.4x10^{-5}$
Leakage Resistance (BS 2050):	$5X10^4$-10^8 ohms
Temperature Resistance:	Constant up to 60°C. Occasional spillages of up to 80°C at 2.5mm + thickness
Flash Steam Cleanable:	Yes
Water Permeability:	Nil

All figures are measured and expressed as per laboratory conditions. Actual performance may vary from the above values depending on site conditions.

Physical Properties

Complies with BS 8204-6 / FeRFA Type 5

System Make-Up:

Primer (s)	Copper conductor strip affixed to substrate +1x coat Epigard SL Anti-static Primer (& where necessary 1x Pre-Primer of Fastrac)
System	1 application of Epigard SL Anti-static
Sealer Coat (s)	None
Optional Variations	None

System Details:

Finish:	Smooth, semi-gloss finish
Thickness:	2.5 - 5mm
Standard Colours:	Wide colour range plus bespoke colours.

Chemical Resistance

Resistant to a wide range of acids, alkalis, solvents, oils, greases and fuels. For full details visit our website: www.john-lord.co.uk/products/technical-guides.php or consult 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 / 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.

In-Service Maintenance

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

Suitable cleaning methods for this product include:

- Rotary scrubbing machine and /or warm water washing (up to 60°C) with suitable detergent products – see John Lord Cleaning Guide for further details
- Flash steam cleaning is suitable on an occasional basis

APPLICATION INFORMATION

John Lord recommend that all products are installed by their own Contracts Department. John Lord Contracts Department provide a professional service with experienced

Project Management supervision and skilled, trained and NVQ /CSCS approved applicators.

Suitable Applications

- Electronics Manufacturing/ Assembly/ Testing
- Pharmaceutical production
- Laboratories/ Clean rooms
- Hospitals
- Ordnance facilities
- Nuclear Industry
- Aerospace Industry
- Specialist Dry processing

Substrate Requirements

Concrete substrates should be a minimum strength of 35N/ Sq.mm, with a minimum cement content of 320 –350kgs per cubic metre. Substrates should have minimum laitance and be free from dust and contamination. Substrates should be free of any unseen defects such as structural instability or intermediate delamination. Tolerances and levels in concrete substrates should be of the standard required of the seamless resin finish. Substrates should be dry to 75% RH as per BS8204 or by Vaisala thermo hygrometer type HMI 31. Substrates should incorporate an effective D.P.M and be free from rising dampness, moisture and osmosis. Newly laid substrates must be allowed sufficient 'drying out' time prior to overlaying. The drying time required will depend upon ambient temperatures, humidity and substrate thickness. Epigard SL Antistatic products should NOT be applied to the following substrates: *Asphalt, Unmodified sand cement screeds, PVC tiles or sheet.*

Substrate Preparation

Careful preparation of the substrate is essential. A detailed inspection of the substrate must be undertaken to determine the nature of preparation required eg. mechanical scarifying, diamond grinding, shot blasting, chemical decontamination, hot compressed air treatment. Steel decking should be prepared to S.A 2.5 or similar. For specialist advice on substrate preparation contact John Lord.

Application Technique

Temperature: Correct temperature is critical to the successful application of Epigard SL Antistatic, and air temperatures should be maintained between 18°C and 23°C during the application and curing period of this product. We also strongly recommend that the application area is heated to temperatures of between 18°C and 23°C for up to 24 hours prior to application to allow the ambient and substrate temperature to regulate before the application commences. Materials should also be kept in a warm area of 15°C 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 prior to priming and connected to a suitable earthing point. 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). It is recommended that substrates which are known to have a high porosity or void content should receive one additional coat of Fastrac primer, 12 hours prior to the application of the copper conductor strips and SL Antistatic primer.

System: Before application of the 4-part SL Antistatic system, ensure resistance readings are taken of the dry primer layer in accordance with B.S EN 1081:1998, complying with a maximum of $5x10^4$ ohms. Parts A and B of the supplied materials should be premixed using a slow speed drill and paddle, followed by Part C which should be added gradually until the mixture becomes homogenous. Part D should then be added and mixed for no longer than one minute. The mixed material 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.

Precautions

Appropriate PPE such as gloves, goggles and barrier cream should be worn during mixing and application of this product. Product should not come into contact with the skin or eyes, or be swallowed. Avoid inhalation.

For full health and safety hazard information, please refer to the John Lord Safety Data Sheet (SDS) for each component of this product. COSHH and SDS documents can be obtained from our Bury Office or via our website www.john-lord.co.uk.

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, the suitability of the product for a particular application or requirement beforehand. John L. Lord & Son cannot accept any responsibility of work and the subsequent performance of their systems that are not controlled by their own contracting services.

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

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