



## PRODUCT DESCRIPTION

Epigard SL ESD 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 ESD has a smooth gloss finish and is laid between 2 mm and 3 mm thick depending upon in-service requirements.

## KEY BENEFITS

- Static dissipative properties
- Easy to clean, gloss finish
- Colour stable
- Good chemical resistance
- Long-term and durable
- Reduced installation times
- Fast application and quick cure
- Non-tainting

## TECHNICAL DATA

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

### Physical Properties

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

Primer(s):	1 coat Epigard Fastrac Primer followed by copper tape and 1 coat Epigard ESD Primer
System:	1 application of Epigard SL ESD
Sealer Coat(s):	None as standard
Optional Variations:	None as standard

### System Details:

Finish:	Solid colour, gloss, smooth finish
Thickness:	3 mm to 5 mm

## Chemical Resistance

Highly resistant to a wide range of chemicals including organic solvents, acids and alkalis. For full details consult the John Lord Technical Dept.

Note: Discolouration or staining may occur when exposed to some chemicals based on the nature of the spill and cleaning regime followed.

## Performance Data

Compressive Strength:	50 N/mm <sup>2</sup>
Bond Strength to Concrete:	> 2.5 N/mm <sup>2</sup>
Temperature Resistance:	-10°C to 50°C at 3 mm, -10°C to 70°C at 5 mm
Abrasion Resistance:	BS8204-2 Class AR1:< 0.1 mm
Water Permeability:	Nil
BS EN 1081 (R <sub>2</sub> ):	< 10 <sup>8</sup> Ω
BS EN 61340-5-1:	< 10 <sup>9</sup> Ω
Flash Steam Cleanable:	No

Epigard SL ESD is classified as Medium Slip Potential Flooring (in dry conditions) as described in 'The Assessment of Floor Slip Resistance: The UKSG Guidelines issue 4 / 2011'. Results were obtained from tests carried out by the Health and Safety Laboratory (HSL) and from our own internal laboratory tests.

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

## Curing Time

A completed resin floor can go into service after the following minimum cure periods at 16°C and above:

Light Traffic:	24 hours
Heavy Traffic:	72 hours

## 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 6 months.

## CE MARKING



EN 13813 AR1-B2.8-IR20.0

Synthetic resin screed material for use internally in buildings

Bond Strength:	B 2.8
Wear Resistance:	AR1
Impact Resistance:	IR 20.0

## STANDARD COLOUR RANGE



Red

Green

Dark Grey

*These colours are an indication only. Please request samples for accurate colour tiles.*

## Optional Colour Range



Midnight Blue

*Blue uses organic pigments which have instability under differing shear rates and atmospheric conditions. This can lead to increased variance between mixes. Also note, Blue Epigard Epiflex is a lighter shade than the screed due to manufacturing constraints. Please contact your John Lord representative.*

## 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

- Dry Processing
- Warehouse, Storage, and Engineering Facilities
- Dry Assembly and Packing
- Chemical Storage & Pharmaceutical Production
- Working Environments subject to undesirable static discharge

### Application Temperature

Air and substrate temperatures should be maintained between 16°C and 23°C during the application and curing period of this product. Materials should also be kept in a warm area of 16°C minimum temperature for 12 hours prior to application. Dehumidifiers must be used where high humidity conditions prevail. Ensure adequate ventilation during application.

## Priming

The dry, prepared, dust-free substrate should receive a roller applied tack coat of Epigard Fastrac Primer. Copper Tape should then be applied once cured before a roller applied coat of Epigard ESD Primer is applied. More uneven substrates should receive a 1mm scratch prime coat before the initial Fastrac Primer. After a minimum of 8 hours curing time at 18°C the Epigard SL ESD can be applied.

## System Application

The Epigard SL ESD should be mixed and trowel applied at a thickness of between 3 and 5 mm with spike roll finish.

## 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 hot water washing (up to 70°C) with suitable detergent products. See John Lord Cleaning Guide for further details.
- Flash steam clean is unsuitable.

## STATEMENT OF RESPONSIBILITY

The 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 Lord the suitability of the product for a particular application. John Lord cannot accept any responsibility for work and the subsequent performance of their systems that are not controlled by their own contracting services. John Lord reserve the right to alter information in this document without prior notification; it is the responsibility of the client or user to obtain the most recent issue.