

## Technical Data Sheet

### EPIGARD

#### SL 2/5

#### DESCRIPTION

Epigard SL 2/5 is a cost effective and durable self-levelling epoxy flooring system, which is laid at thicknesses between 2mm and 5mm. It provides a smooth, uniform and seamless finish with a deep glossy lustre. Epigard SL 2/5 also offers good chemical resistance, impact resistance, good colour stability and is easy to clean.

#### KEY BENEFITS

- Attractive smooth gloss finish
- Colour stable
- Cost Effective
- Solvent free, Non Tainting
- Chemical resistant
- Easy to clean, gloss finish
- 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 N / mm <sup>2</sup>
Flexural Strength:	30 N / mm <sup>2</sup>
Tensile Strength (ISO R527):	15.0 N / mm <sup>2</sup>
Coeff. Thermal Expansion (ASTM C531):	°C <sup>-1</sup> 3.3x10 <sup>-5</sup>
Temperature Resistance:	Constant up to 60°C. Occasional spillages of up to 80°C at 3mm+ thickness
Flammability (BS 476: 7):	Class 2
Flash Steam Cleanable:	No
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)	1x coat Epigard SL Primer (+ optional 1x pre-coat Fastrac primer)
System	1 or 2 applications Epigard SL 2/5
Sealer Coat (s)	None
Optional Variations	Clear, scratch resistant Sealer Coat

#### System Details:

Finish:	Smooth, gloss finish
Thickness:	2 - 5mm
Standard Colours:	Most RAL Classic Colour range

#### 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](http://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

- Dry processing

- Textile processing
- Pharmaceutical production
- Electronics manufacturing
- Laboratories/ Clean rooms
- Warehousing and storage
- Dry assembly and packing
- Chemical storage
- Hospitals
- Retail units
- Showrooms
- Aerospace Industry

### 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 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 2/5 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 temperatures 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: The dry, prepared, dust-free substrate should be primed with roller-applied Epigard SL primer, and allowed to cure for 8-12 hours prior to overlaying with Epigard SL 2/5. Cementitious-based substrates which are known to have a high porosity or void content, should be primed with Fastrac Primer and allowed to cure for 12 hours, followed by an additional primer coat of Epigard SL primer. This can be overlaid with Epigard SL 2/5 after a further 8-12 hours.

System: The Epigard SL 2/5 should be thoroughly mixed, then poured onto the primed substrate and hand floated or pin raked out to the desired thickness. The material should be allowed to self-smooth before spike rolling the surface in a uniform direction as much as required. In particularly porous substrates it may be necessary to lay Epigard SL 2/5 in two layers to avoid pinholes. In this case, the second layer should be applied once the first layer is able to accept foot traffic.

Joints: All known movement joints in the substrate 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](http://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.

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