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Technical Data Sheet

EPIGARD SL2/5

Product Description

Epigard SL2/5 is a cost effective and durable self-levelling epoxy resin floor screed: laid to a thickness between 2mm and 5mm. It provides a smooth, uniform and seamless finish with a deep gloss lustre. Epigard SL2/5 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
- 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
Coeff. Thermal Expansion (ASTM C531):	°C^{-1}3.3x10^{-5}
Temperature Resistance:	Constant up to 60°C Occasional spillages of up to 75°C at 3mm+ thickness
Bond Strength to Concrete	Exceeds cohesive strength @ 30N/mm^2
Flammability (BS 476:7):	Class 2
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):	1 coat Epigard SL primer or Epigard Fastrac primer
System:	1 or 2 applications Epigard SL2/5
Sealer Coat(s):	None
Optional Variations:	Clear, scratch resistant sealer coat

System Details:

Finish:	Smooth/gloss
Thickness:	2mm to 5mm
Colour:	Most RAL classic colours available

Chemical Resistance

Resistant to a wide range of acids, alkalis, oils, 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 SL2/5:

- Epigard resin render screed
- ASPEN Stainless steel drainage systems
- ASPEN Stainless steel wall support kerbing system

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

- Textile Processing
- Pharmaceutical Production Facilities
- Electronics Manufacturing Facilities
- Laboratories and Clean Rooms
- Warehousing and Storage
- Dry Assembly and Packing
- Chemical Storage
- Hospitals
- Retail and Leisure
- Show Rooms
- Aerospace Industry

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 SL2/5 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

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 SL2/5. 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 a coat of Epigard SL primer: This can be overlaid with Epigard SL2/5 after a further 8-12 hour cure.

System Application

The Epigard SL2/5 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.

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.

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.

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