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johnlord
SPECIALIST FLOORING

Technical Data Sheet

Epigard SL

Product Description

Epigard SL is a cost effective and durable self-levelling epoxy resin floor screed laid to a thickness between 3 mm and 5 mm. It provides a smooth, uniform, and seamless finish with a deep gloss lustre.

Epigard SL also offers good chemical resistance, impact resistance, good colour stability and is easy to clean.

Key Benefits

- Attractive and uniform surface finish
- Colour stable
- Solvent free and non-taint
- Quick curing
- Chemical and temperature resistant
- Seamless and hygienic
- Optional biocide additive
- Highly durable

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
System:	1 application of Epigard SL scratchcoat and 1 coat of Epigard SL basecoat
Sealer Coat(s):	None as standard
Optional Variations:	Biocide additive, scratch resistant sealer

System Details:

Finish:	Solid colour, gloss, smooth finish
Thickness:	4 mm to 6 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^2
Flexural Strength:	18 N/mm^2
Tensile Strength:	15 N/mm^2
Bond Strength to Concrete:	> 2.5 N/mm^2
Temperature Resistance:	Constant up to 50°C at 3 mm, 70°C at 5 mm.
Abrasion Resistance:	BS8204-2 Class AR1:< 0.1 mm
Water Permeability:	Nil

Epigard SL is classified as Low Slip Potential Flooring (dry) 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:	16 hours
Heavy Traffic:	48 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

CE 11

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

As screen and print settings are beyond our control, these colours are an indication only. Please request product samples for accurate colour information of any of these nine standard colours or a bespoke colour.

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

- Pharma & Electronics Production Facilities
- Laboratories & Clean Rooms
- Warehousing & Storage
- Dry Assembly & Packing
- Hospitals & Show Rooms
- Retail & Leisure Facilities

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 or squeegee coat of Epigard Fastrac primer, which may also be used on semi-cured, new or damp concrete. After cure, the Epigard SL scratchcoat can be applied. See separate data sheet for details.

System Application

The Epigard SL bodycoat should be mixed and squeegee 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.

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 80°C) with suitable detergent products. See John Lord Cleaning Guide for further details.
- Flash steam clean is not suitable.

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.