

## Technical Data Sheet

### EPIGARD

#### Progrid

#### DESCRIPTION

Epigard Progrid is a flow-applied, self smoothing, anti-slip, epoxy-based resin flooring system. Progrid offers high levels of overall performance and the ability to withstand heavy traffic in many environments. Progrid is applied in one fast application, producing an attractive deep gloss finish.

#### KEY BENEFITS

- Attractive anti-slip, gloss finish
- Slip resistant
- Wide range of colours available
- Fast one-step installation
- Non tainting
- Chemical resistant
- Easy to clean
- Highly wear 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:	65 N / mm <sup>2</sup>
Flexural Strength:	25 N / mm <sup>2</sup>
Tensile Strength (ISO R527):	15.0 N / mm <sup>2</sup>
Coeff. Thermal Expansion (ASTM C531: Part 4.05):	°C <sup>-1</sup> 3.1x10 <sup>-5</sup>
Temperature Resistance:	Constant up to 60°C. Occasional spillages of up to 80°C at 6mm 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 7

#### System Make-Up:

Primer (s)	1-2 coats Epigard SL Primer
System	1 applications Epigard Progrid
Sealer Coat (s)	None
Optional Variations	None

#### System Details:

Finish:	Anti-slip, textured, gloss finish
Thickness:	4 - 6mm
Standard Colours:	Available in most RAL Classic Colours 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:

Foot traffic:	24 hours
Heavy traffic	60 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

- Food Processing

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

### Substrate Requirements

Epigard Progrip is suitable for overlaying a number of substrates including concrete, mild steel, plywood, and fibre board. 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 Progrip 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 Progrip and air temperatures should be maintained between 18°C and 23°C during the application and curing period of this product.

### 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.

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 Progrip. Cementitious-based substrates which are known to have a high porosity or void content, should be pre-primed with Fastrac Primer and allowed to cure for 12 hours, before priming with Epigard SL primer.

System: Epigard Progrip is supplied in a 4-part pack. First mix Part A and B with a slow speed electric drill and paddle for a minimum of 3 minutes. Pour this mixture into a forced action-type mixer (eg. Pennine Casco G8) and slowly add Part C. Mix this for a further 3 minutes, then finally add Part D and mix for a further minute. Immediately pour onto the primed substrate and hand float out to the desired thickness using a straight edged, notched trowel or pin rake. 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](http://www.john-lord.co.uk).

