

Technical Data Sheet

EPIGARD

Gripcast

DESCRIPTION

Gripcast is a medium to heavy-duty, slip-resistant, self-smoothing epoxy-based floor finish. When fully cured, Gripcast has an attractive high gloss finish to allow ease of cleaning. Gripcast can be installed at varying degrees of slip resistance and is typically applied between thicknesses of 2.5mm and 5mm depending on in-service requirements.

KEY BENEFITS

- Chemical resistant
- Anti-slip properties
- Highly durable and impact resistant
- Seamless and hygienic
- Easy to clean gloss finish
- Temperature resistant
- Colour stable, bespoke colour requests available
- Quick curing
- Non-tainting

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:	75-80 N / mm ²
Flexural Strength:	30 N / mm ²
Tensile Strength:	14 N / mm ²
Coeff. Thermal Expansion (ASTM C531 Part 4.05):	°C ⁻¹ 3.1x10 ⁻⁵
Temperature Resistance:	Constant up to 65°C. Occasional spillages of up to 80°C at 5mm thickness
Flash Steam Cleanable:	Yes
Water Permeability:	Nil

Slip Resistance

(Independent test results according to HSE/HSL & UK Slip Resistance Group Guidelines Issue 2 2000)

Product	Surface Roughness (Rtm)	Dynamic Co-Efficient of Friction (Pendulum Slip Test Method)
Gripcast	37.5	Dry: 98 Wet: 75

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 4

System Make-Up:

Primer (s):	1x coat Epigard Gripcast Primer (+ where necessary 1x pre-coat Fastrac primer)
System:	1 x application Epigard Gripcast base screed + aggregate broadcast
Sealer Coat (s):	2 x Gloss Gripcast Sealer coat
Optional Variations:	Various sizes of anti-slip aggregate broadcast. Extra sealer coats to reduce/ give desired anti-slip profile.

System Details:

Finish:	Slip resistant, gloss finish
Thickness:	2.5 - 5mm
Standard Colours:	Most of RAL classic colour range.

Chemical Resistance

Resistant to a wide range of acids, alkalis, oils, greases, salt solutions, fuels and some solvents. For full details visit our website: 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:	24 hours
Heavy traffic	48 hours
Full Chemical Cure:	5 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 hot 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

- Wet / Dry Processing areas inc. Food Processing
- Manufacturing facilities
- Printing facilities
- Pharmaceutical production facilities
- Electronics manufacturing facilities
- Workshops
- Railtrack
- Showrooms

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 Gripcast 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 Gripcast and air...

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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temperatures should be maintained between 15°C and 20°C during the application and curing period of this product. We also strongly recommend that the application area is heated to temperatures of between 15°C and 20°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 Gripcast primer, and allowed to cure for 8-12 hours prior to overlaying with Epigard Gripcast. Cementitious-based substrates which are known to have a high porosity or void content, should be primed with an additional coat of Fastrac Primer 12 hours prior to the Epigard Gripcast primer.

System: The Epigard Gripcast base screed 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 until all the trapped air has been released. The anti-slip Gripcast aggregate is then broadcast onto the surface until saturated, and left overnight to cure fully. Any excess aggregate should be removed by vacuum before roller-applying the Gloss Gripcast sealer coats.

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

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