

## Technical Data Sheet

### EPIGARD

#### S.Q

#### DESCRIPTION

Epigard S.Q is a medium-heavy duty, decorative epoxy resin screed. This system boasts an eye-catching speckled finish with coloured quartz aggregates, available in 9 standard colour blends with bespoke colours on request. Epigard S.Q also offers excellent all-round performance with high substrate bond strength, excellent wear and impact resistance, and chemical resistance.

#### KEY BENEFITS

- Attractive coloured quartz finish
- Bespoke colours on request
- Easy to clean, matt finish
- Highly durable and impact resistant
- Seamless and hygienic
- Chemical 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 (DIN 53454): | 60 N/ mm <sup>2</sup>                    |
| Flexural Strength (DIN 53452):    | 24 N /mm <sup>2</sup>                    |
| Adhesion to Concrete:             | Exceeds the tensile strength of concrete |
| Dynamic E-Modulus (DIN 53457):    | 9500 N /mm <sup>2</sup>                  |
| Temperature Resistance:           | Constant up to 50°C.                     |
| Flash Steam Cleanable:            | No                                       |
| Water Permeability:               | Nil                                      |

**LRV Measurements (below):** tested according to BS8300 and BS8493. Traceable to the NPL – 2006 scale. Tested with Illuminant D65 / 10 degree observer.

| S.Q Colour | LRV Measurement |
|------------|-----------------|
| Berry      | 12.6            |
| Chalk      | 32.5            |
| Emerald    | 31.9            |
| Granite    | 12.0            |
| Marine     | 15.9            |
| Mist       | 20.4            |
| Oatmeal    | 31.6            |
| Sand       | 40.2            |
| Sky        | 33.0            |

*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 6

#### System Make-Up:

|                     |   |
|---------------------|---|
| Primer (s)          | 1x coat Fastrac Primer                        |
| System              | 1x application Epigard S.Q                    |
| Sealer Coat (s)     | 2x Epigard Gel Grout<br>1x Uragard P.C. Glaze |
| Optional Variations | None  |

#### System Details:

|                   |  |
|-------------------|--|
| Finish:           | Multi-coloured, matt finish                                      |
| Thickness:        | 4 - 8mm  |
| Standard Colours: | Berry, Chalk, Emerald, Granite, Marine, Mist, Oatmeal, Sand, Sky |

#### Chemical Resistance

Resistant to a wide range of acids, alkalis, oils, greases, salt solutions, aggressive vapours 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:      | 24 hours |
| Heavy traffic:      | 48 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

## 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

- Showrooms
- Retail Outlets
- Leisure facilities
- Museums
- Pharmaceutical production facilities
- Commercial and Corporate amenities
- Restaurants and Bars

### 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 S.Q 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 S.Q and air temperatures should be maintained between 18°C and 23°C during the

### 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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