

Technical Data Sheet

URAGARD

SL

DESCRIPTION

Uragard SL is a specially formulated hard-wearing, self-levelling, smooth gloss floor system. It offers exceptional wear resistance and chemical resistance, and is easy to clean. Uragard SL also features good flexural and tensile properties enabling it to be used over weak substrates whilst still maintaining high performance. An anti-slip version of Uragard SL is available.

KEY BENEFITS

- Attractive smooth gloss finish
- Non tainting
- Chemical resistant
- Easy to clean
- Flexible
- Highly durable and impact resistant
- Fast application
- Wide range of bespoke colours

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

Density (ASTM C64-82):	1500 kg/m ³
Tensile Elongation at break (ISO R527):	10%
Tensile Strength (ISO R527):	10.0 N/mm ²
Dynamic E-Modulus (ASTM C597-83):	6000 N/mm ²
Linear Shrinkage on cure (ASTM C490-85):	0.05%
Coeff. Thermal Expansion (ASTM C531 Part 4.05):	°C ⁻¹ 7.5x10 ⁻⁵
Temperature Resistance:	Constant up to 60°C. Occasional spillages of up to 80°C at 3mm+ thickness
Abrasion Resistance (ASTM D4060 Taber Abrader 1Kg load, 1000 cycles):	CS 17 Wheel: 77mg loss H22 Wheel: 246mg loss
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 5

System Make-Up:

Primer (s)	1/ 2x coat Protect No.3 Primer and silica sand broadcast
System	1 application Uragard SL
Sealer Coat (s)	None
Optional Variations	Anti-slip broadcast variation + optional sealer coat for anti-slip variation

System Details:

Finish:	Smooth, gloss finish
Thickness:	1 - 3mm
Standard Colours:	Red, Buff, Terracotta, Green, Dark Grey, Mid Grey

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 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
Medium traffic:	48 hours
Full traffic/ 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 6 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

- Dry processing and assembly
- Pharmaceutical production
- Laboratories/ Clean rooms
- Warehousing and storage
- Hospitals
- Retail units
- Showrooms
- Aerospace Industry

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. Uragard SL products should NOT be applied to the following substrates: *Asphalt, Unmodified sand cement screeds, PVC tiles or sheet, hardboard or chipboard.*

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

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.



...application of Uragard SL and air temperatures should be maintained between 18°C and 23°C during the application and curing period of this product. We also recommend that the application area is heated to temperatures 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 min. 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 Protect No.3 primer using a short pile roller or squeegee. The primer should be applied in two layers and each layer should be cast with dry silica sand (0.4-0.7mm) at a rate of 0.5-1.0kg/m², and allowed to cure overnight between layers.

System: The Uragard SL should be thoroughly mixed, then poured onto the primed substrate and hand floated 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.

Anti-slip Variation: As above. Once the Uragard SL has been hand floated out and spike rolled, a mineral flint aggregate is broadcast into the uncured surface until saturation. After overnight cure any excess aggregate should be removed. The surface then receives 1 or 2 sealer coats of Uragard SL Resin Sealer. Each coat should be left to cure for 8-12 hours at 18°C.

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