johnlord
SPECIALIST FLOORING

Technical Data Sheet

Uragard Monocast

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Product Description

Uragard Monocast is a heavy-duty polyurethane resin product specifically designed for applications within the food and beverage industry.

Uragard Monocast is particularly recommended for wet and/or slippery conditions which require compatible anti-slip profiling, together with superior all-round performance including chemical and thermal shock, and wear, impact, and abrasion resistance.

Key Benefits

- Attractive and uniform surface finish
- Three grades of anti-slip profiles available
- 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 4, System Make-Up:

Primer(s):	1 coat Uragard Primer or Epigard Fastrac Primer
System:	1 application of Uragard MT basecoat and aggregate broadcast
Sealer Coat(s):	None as standard
Optional Variations:	Biocide additive, additional sealer coats

System Details:

Finish:	Solid colour, satin, anti-slip 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.

BioCote® additive

John Lord has partnered with BioCote® to provide an optional antimicrobial additive to our flooring systems. This additive provides continuous protection against bacteria, mould, and mildew. For further information contact your John Lord representative.

Performance Data

Compressive Strength:	60 N/mm^2
Flexural Strength:	15 N/mm^2
Tensile Strength:	6.0 N/mm^2
Bond Strength to Concrete:	> 2.5 N/mm^2
Temperature Resistance:	Up to 80°C at 6 mm
Abrasion Resistance:	BS8204-2 Class AR1:< 0.1 mm
Water Permeability:	Nil

Uragard Monocast is classified as Low Slip Potential Flooring (both wet and 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

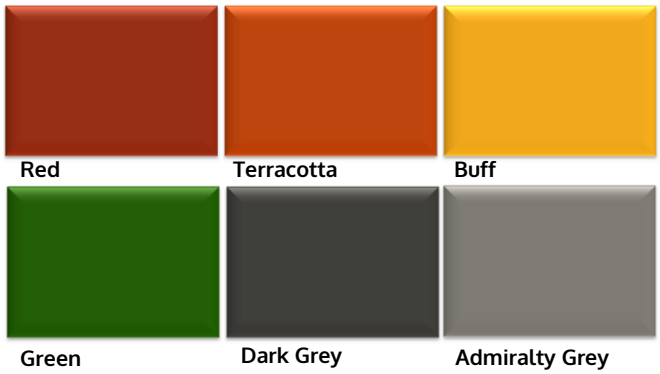
CE 11

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



These colours are an indication only. Please request samples for accurate colour tiles.

Optional Colour Range

Blue uses organic pigments which have instability under differing shear rates and atmospheric conditions. This can lead to increased variance between mixes. Blue Epigard Epiflex is a lighter shade than the screed due to manufacturing constraints.
Due to their inherent chemical composition, all polyurethanes discolour over time. However, this discolouration is more prominent with Blue and Mid Grey. Please contact your John Lord representative for more information.

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

- Wet Processing Areas
- Food Processing
- Meat Processing
- Breweries
- Dairies
- Manufacturing 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 Uragard Primer. Epigard Fastrac primer may also be used on semi-cured, new or damp concrete. After overnight cure, the Uragard Monocast can be applied. See separate data sheet for details.

System Application

The Uragard Monocast should be mixed and trowel applied at a thickness of between 4 and 6 mm with spike roll finish, broadcast with Monocast aggregates, and sealed with Uragard SLR.

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.

Note: The texture of Uragard Monocast on the finished floor surface may appear banded or slightly variable. This is a natural, visual aspect of the system influenced by atmospheric conditions and is not defective in anyway. Polyurethane systems have limited colour stability which can result in discoloration of the floor over a period of time or upon exposure to UV light. Our standard colour range has been carefully chosen to provide a colour range limiting the extent of discolouration.

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 suitable on an occasional basis.

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.