

PRODUCT DESCRIPTION

Uragard HDR is a fast application, rake and trowel applied development of our Uragard HT heavy duty screed range. Uragard HDR provides exceptional all-round performance with excellent chemical, wear, impact and abrasion resistance.

Uragard HDR provides an effective slip resistant surface, whilst the resin rich composition aids cleanability. It also provides excellent thermal shock resistance.

KEY BENEFITS

- Improved cleanability
- Fast curing, single application
- Excellent chemical resistance
- Exceptional abrasion and impact resistance
- Optional UV stable coating
- Temperature resistant at temperatures from -25°C to 100°C at 6 mm thickness
- Non-tainting
- Optional biocide additive
- Reducing installation times

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 8, System Make-Up:

Primer(s):	1 coat Uragard Primer or Epigard Fastrac Primer
System:	1 rake and trowel application of Uragard HDR
Sealer Coat(s):	None as standard
Optional Variations:	Uragard SLR sealer coat, biocide additive

System Details:

Finish:	White speckled, resin rich matt, anti-slip
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: Light discolouration or staining may occur when exposed to some chemicals based on the nature of the spill and cleaning regime followed.

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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:	6.5 N/mm ²
Bond Strength to Concrete:	> 2.5 N/mm ²
Temperature Resistance:	Constant -25°C to 80°C. Occasional spillages of up to 100°C at 6 mm thickness
Abrasion Resistance:	BS8204-2 Class AR0,5:< 0.05 mm
Water Permeability:	Nil
Slip resistance (not back-rolled)	>60 dry, >45 wet, BS 7976-2

Uragard HDR 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 15°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



EN 13813 AR0,5-B2.8-IR20.0

Synthetic resin screed material for use internally in buildings

Bond Strength:	B 2.8
Wear Resistance:	AR 0,5
Impact Resistance:	IR 20.0

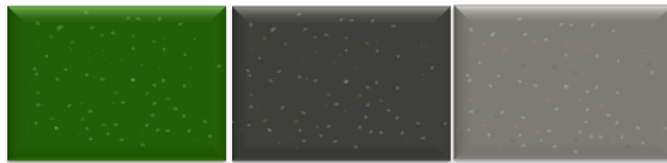
STANDARD COLOUR RANGE



Red

Terracotta

Buff



Green

Dark Grey

Admiralty Grey

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

Optional Colour Range



Midnight Blue

Mid Grey

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. Discolouration can be mitigated by the application of a UV stable coating, contact your John Lord representative for further 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 and Dry Food Processing, e.g. Abattoirs, Bakeries
- Pharmaceutical Production
- Brewing and Beverage
- Chemical Processing
- Heavy Engineering
- Aerospace

Application Temperature

Air and substrate temperatures should be maintained between 12°C and 20°C during the application and curing period of this product. Materials should also be kept in a warm area of 15°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 cure, the Uragard HDR can be applied. See separate data sheet for details.

System Application

The Uragard HDR should be mixed and rake and/or trowel applied at a thickness of between 4 and 6 mm.

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 HDR 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 discoloration.

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.