



Product Description

Uragard HT100 is a fast-curing, heavy-duty, polyurethane flooring system with built-in flexibility, making it particularly useful for freezer or cold room environments. Uragard HT100 ensures a durable, impact and wear resistant surface at operating temperatures from -5°C to -35°C.

Key Benefits

- Suitable for freezers / cold rooms
- Anti-slip surface
- Fast curing, single application
- Excellent chemical resistance
- Excellent impact and wear resistance at -5°C to -35°C
- Temperature resistant from 50°C to -35°C
- Optional biocide additive

Technical Data

John L. Lord & Son Ltd is an ISO 9001:2008 accredited company and all products are manufactured strictly to ISO quality standards.

Performance Data at temperatures between -5°C and -35°C

Compressive Strength:	53 N/mm ²
Flexural Strength:	13 N/mm ²
Bond Strength to Concrete:	Exceeds cohesive strength @ 30N/mm ²
Tensile Strength:	5 N/mm ²
Temperature Resistance:	Constant -35°C to 50°C
Flash Steam Cleanable:	No
Water Permeability:	Nil

Uragard HT100 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.

Continued slip resistance can only be maintained if the guidelines in the HSE's STEP tool (Slips and Trips eLearning Package) are followed.

All figures are measured and expressed under laboratory conditions: Actual performance may vary from the above values depending upon site conditions.

Physical Properties

Complies with BS 8204-6 / FeRFA Type 6, System Make-Up:

Primer(s):	1 coat Uragard primer
System:	1 application Uragard HT100
Sealer Coat(s):	None
Optional Variations:	Biocide additive, glazed sealer coats (Uragard SC2 or MB12)

System Details:

Finish Seal:	Resin rich anti-slip
Thickness:	9mm to 12mm
Colour:	Grey, Red, Green, Buff, Cream or Terracotta

Chemical Resistance

Resistant to a wide range of chemicals. For full details consult the John Lord Technical Dept.

Curing Time

Floor can go into service after the following minimum cure period at 18°C and above:

Light Traffic:	24 hours
Heavy Traffic:	48 hours

Note: Uragard HT100 must be allowed to cure fully for 7 days prior to exposing system to operating temperatures below 0°C.

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.

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

- Freezer, Chiller and Cold Room Environments

Substrate Suitability and Preparation

A separate technical data sheet is available on 'Substrate Suitability and Preparation'.

Application Temperature

Correct temperature is critical to the successful application of Uragard HT100 and air temperatures should be maintained between 10°C and 25°C during the application and curing period of this product. We also strongly recommend that the application area is heated to temperatures of between 10°C and 25°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 12°C minimum temperature for 12 hours 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 receive a roller-applied tack coat of Uragard primer. After approximately one hour of tack off time the Uragard HT100 can be applied.

System Application

The Uragard HT100 should be mixed and trowel applied to a thickness of between 9mm and 12mm.

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 HT100 on the finished floor surface may appear banded or slightly variable. This is a natural, visual aspect of the system, which can also be 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 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 warm water washing (up to 60°C) with suitable detergent products – see John Lord Cleaning Guide for further details.

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 Ltd the suitability of the product for a particular application. John L. Lord & Son Ltd cannot accept any responsibility for work and the subsequent performance of their systems that are not controlled by their own contracting services.

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