

## Technical Data Sheet

### URAGARD

#### HT 110W

#### DESCRIPTION

Uragard HT 110W is a general-purpose resin screed offering excellent abrasion resistance, chemical resistance and thermal shock resistance. Uragard HT 110 W maintains a level of relative flexibility after cure, and provides a fine to medium anti-slip profile as a trowel finished screed. The system can be completed with an optional glazed sealer coat to aid cleanability.

#### KEY BENEFITS

- Anti-slip surface
- Fast curing, single application
- Excellent chemical resistance
- Excellent impact and wear resistance
- Excellent temperature resistance
- Easy to Clean

#### 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:	53.0 N / mm <sup>2</sup>
Compressive Modulus:	9850.0 N / mm <sup>2</sup>
Flexural Strength:	17.0 N / mm <sup>2</sup>
Flexural Modulus:	2,400.0 N / mm <sup>2</sup>
Tensile Strength:	5.5 N / mm <sup>2</sup>
Tensile Modulus:	450.3 N / mm <sup>2</sup>
Temperature Resistance:	Constant -25°C to 70°C. Occasional spillages of up to 120°C at 9mm thickness
Flash Steam Cleanable:	Yes
Water Permeability:	Nil

#### Slip Resistance

(Independent test results according to HSE/HSL & UK Slip Resistance Group Guidelines Issue 2 2000)

System	Surface Roughness (Rtm)	Dynamic Co-Efficient of Friction (Pendulum Slip Test Method)
HT 110W	27.7	Dry:109 Wet:32
HT 110 W +SC2	26.0	Dry: 99 Wet:26
HT 110W +MB12	19.7	Dry:115 Wet:25

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 Uragard Primer
System	1x application Uragard HT 110W
Sealer Coat (s)	None
Optional Variations	Glazed sealer coat (SC2 or MB12)

#### System Details:

Finish:	Resin rich anti-slip, optional sealed matt or gloss finish
Thickness:	6 / 9mm
Standard Colours:	Red, Buff, Terracotta, Green, Dark Grey

#### Chemical Resistance

Resistant to a wide range of chemicals including sugars, alkalis and most acids (organic and inorganic). For full details visit our website [www.johnlord.co.uk/products/technical-guides.php](http://www.johnlord.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:	16 hours
Heavy traffic:	48 hours

#### 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 hot water washing (up to 70°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

- Food Processing
- Brewing and Beverage
- Dairy Processing
- Pharmaceutical
- Chemical Processing and Storage

### 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. John Lord can supply special primers that allow Uragard HT to be applied to newly installed concrete substrates without waiting for conventional cure periods – contact John Lord for further information. Uragard HT 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.

### 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 Technique

**Temperature:** Correct temperature is critical to the successful application of Uragard HT 110 W and air temperatures should be maintained between 15°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 15°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 tack off time, the Uragard HT 110 W can be applied.

**System:** The Uragard HT 110W should be mixed and trowel applied to a thickness of between 6 – 9mm.

**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 the above product may on the finished floor surface provide a banded or slightly variable appearance. 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 U.V light. Our standard colour range has been carefully chosen to provide a colour range limiting the extent of discolouration.

### 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](http://www.john-lord.co.uk)