

Technical Data Sheet

URAGARD

W.R Cove Grade

DESCRIPTION

Uragard W.R Cove Grade is a polyurethane resin screed system for vertical surfaces. It has been developed to compliment our range of Uragard HT flooring systems, to form coving details and skirting, and to protect plinths, drains, tank bases, sumps and other vertical surfaces from chemical or physical attack. Uragard W.R Cove Grade provides a smooth, self sealing, hygienic finish that can be easily cleaned and colour matched to our Uragard HT flooring systems. Extra sealer coats can be applied to Uragard W.R Cove Grade if required to provide good colour matching or enhanced cleaning properties. Uragard W.R Cove is especially suitable for hygiene sensitive environments such as Food/ Beverage Production, Clean Rooms etc.

KEY BENEFITS

- Matches Uragard HT resin screeds
- Smooth, hygienic finish
- Good chemical resistance
- Good impact and wear resistance
- Non-tainting
- Optional sealer coats for colour matching / easy cleaning
- Optional biocide additive

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:	46.0 N / mm ²
Flexural Strength:	10.0 N / mm ²
Tensile Strength:	7.0 N / mm ²
Temperature Resistance:	Constant -25°C to 85°C. Occasional spillages of up to 100°C at 9mm thickness
Adhesive strength to concrete:	Concrete failure
Flash Steam Cleanable:	Yes
Water Permeability:	Extremely low (0% when sealed)

All figures are measured and expressed as per laboratory conditions. Actual performance may vary from the above values depending on site conditions.

Physical Properties

System Make-Up:

Primer (s)	1/2 coats Uragard W.R Tack-Coat
System	1x application Uragard W.R Cove Grade by trowel
Sealer Coat (s)	None
Optional Variations	Optional Uragard SC20 colour-matched sealer coat(s) and optional biocide additive

System Details:

Finish:	Smooth, matt finish
Thickness:	3 - 9mm
Standard Colours:	Red, Buff, Terracotta, Green, Dark Grey, Mid Grey. Colour matching on request

Chemical Resistance

Highly resistant to a wide range of chemicals including organic solvents, acids and alkalis. For full details visit our website: www.john-lord.co.uk/products/technical-guides.php or consult John Lord Technical Dept.

Curing Time

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

Initial cure:	16 hours
Heavy traffic/ full chemical cure:	72 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 80°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
- Engineering
- Aerospace
- Effluent tank linings

Substrate Requirements

Uragard W.R Cove Grade can be installed over most structurally sound building surfaces. 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 to receive a 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 WR 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 W.R Cove Grade 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 W.R primer at a rate of 0.5kg/ m². After approximately 1-2 hours tack off time, the Uragard W.R Cove Grade can be applied. Substrates which are known to have a high porosity or void content, should receive an additional tack coat which should be applied once the initial tack coat has cured.

System: Mix the mortar in a horizontal pan-type mixer eg. Casco or Stelram G8, and spread over the measured area. Close to a neat, seared finish with a steel float or coving trowel.

Sealer coats: Optional sealer coats of Uragard SC20 may be applied by paintbrush after a minimum of 8-12 hours.

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.

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