

Technical Data Sheet

URAGARD

MT

DESCRIPTION

Uragard MT is a self-smoothing polyurethane resin floor screed. It has a seamless, matt finish ensuring maximum ease of cleaning. Uragard MT offers medium duty/temperature performance, good chemical resistance and fast application. It will provide a long-term durable and hardwearing floor surface ideal for dry production and processing environments.

KEY BENEFITS

- Long-term durable
- Fast application/ quick cure
- Good chemical resistance
- Easy to clean, matt finish
- Cost effective
- Low odour, solvent free.

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:	21.0 N / mm ²
Dynamic E-Modulus:	14000 N / mm ²
Tensile Strength:	7.0 N / mm ²
E-Modulus in Compression:	1100 N/ mm ²
Coeff. Thermal Expansion (ASTM C531 Part 4.05):	°C ⁻¹ 3.6x10 ⁻⁵
Temperature Resistance:	At 3mm: -10°C to 60°C At 5mm: -10°C to 80°C
Flash Steam Cleanable:	Yes
Water Permeability:	Nil

Slip Resistance

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

Product	Surface Roughness (Rtm)	Dynamic Co-Efficient of Friction (Pendulum Slip Test Method)
MT	8.0	Dry: 72 Wet: 26

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 7

System Make-Up:

Primer (s)	1x coat Uragard Primer
System	1x application Uragard MT
Sealer Coat (s)	None
Optional Variations	None

System Details:

Finish:	Smooth, matt finish
Thickness:	3 - 5mm
Standard Colours:	Red, Buff, Terracotta, Green, Dark Grey

Chemical Resistance

Resistant to a wide range of chemicals including organic acids, alkalis and certain solvents. For full details visit our website: www.john-lord.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:	24 hours
Heavy traffic/ Full Chemical Cure:	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 60°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

- Dry processing
- Warehousing and storage
- Dry assembly and packing
- Pharmaceutical production
- Chemical Storage
- Engineering Facilities

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. Uragard MT 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.

Application Technique

Temperature: Correct temperature is critical to the successful application of Uragard MT and air temperatures should be maintained between 18°C and 23°C during the...

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.

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application and curing period of this product. If temperatures fall below 18°C, the application could become prone to installation difficulties. The application area should be heated to temperatures of between 18°C and 23°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 15°C minimum 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 coat of Uragard primer. More uneven substrates should instead receive a 1mm scratch prime coat. After a minimum of 8 hours curing time at 18 °C, the Uragard MT can be applied.

System: The Uragard MT should be mixed and poured onto the substrate, then trowelled to a thickness of between 3 – 5mm. A spike roller should be passed through the trowelled material to assist flow and release any trapped air.

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.

