



Product Description

Uragard HTIF is a formulation that forms part of the HT range of heavy duty, high performance, anti-slip, polyurethane screeds. Uragard HTIF offers enhanced protection against extreme abrasion and impact due to its innovative blend of metallic and mineral aggregates.

Uragard HTIF provides a suitable working floor finish in heavy engineering and other industries where particularly aggressive in-service conditions prevail. Uragard HTIF also provides superior all-round performance with built-in chemical and thermal shock resistance.

Key Benefits

- High level of anti-slip
- Fast curing, single application
- Excellent chemical resistance
- Exceptional abrasion resistance
- Temperature resistant at temperatures from -15°C to 120°C at 9mm thickness
- Non-tainting
- Excellent substrate adhesion

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 FeRFA Type 8, System Make-Up:

Primer(s):	1 coat Uragard Primer or Epigard Fastrac Primer
System:	1 application Uragard HTIF
Sealer Coat(s):	None as standard
Optional Variations:	Uragard SLR sealer coat, back rolled finish

System Details:

Finish:	Mono colour, resin rich matt, anti-slip
Thickness:	9mm to 12mm
Standard colours	Red, buff, terracotta, green, grey or cream

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.

Performance Data

Compressive Strength:	60.0 N/mm ²
Flexural Strength:	14.0 N/mm ²
Bond Strength to Concrete:	Exceeds cohesive strength @ 30N/mm ²
Tensile Strength:	7.0 N/mm ²
Temperature Resistance:	Constant -15°C to 100°C. Occasional spillages of up to 120°C at 9mm thickness
Abrasion Resistance:	AR0.5 (less than 0.05mm wear depth; actual = 0.01mm): EN 13892-4 / BS 8204-2
Impact Resistance:	Class A; less than 1mm indentation; actual = 0.3mm: BS 8204-1
Flash Steam Cleanable:	Yes
Water Permeability:	Nil

Uragard HTIF, with trowelled or back-rolled finish, 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.

Curing Time

A completed resin 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 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.

Other Products

The following products from the John Lord Group are recommended for use with Uragard HTIF:

- Uragard WR resin render screed
- ASPEN Stainless steel drainage systems
- ASPEN Stainless steel wall support kerbing system

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

- Rotary Oven Outfeeds
- Steel Wheeled Traffic Routes
- Waste Transfer Station Holding Areas
- Heavy Engineering
- Heavy Product Loading Docks

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 HTIF 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 30 minutes tack off time, the Uragard HTIF can be applied. Epigard Fastrac primer may also be used on semi-cured, new or damp concrete – see separate data sheet for details.

System Application

The Uragard HTIF should be mixed and trowel applied to a thickness between 9mm and 12mm, dependent upon the severity of the in-service environment.

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 HTIF 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 screen 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 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.

John L. Lord & Son Ltd reserve the right to alter information contained in this document without prior notification; it is the responsibility of the client or user to obtain the most recent issue.