

Technical Data Sheet

RIZISTAL Crete Polymer Flooring System

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Product Description

Rizistal Crete polymer flooring is an advanced polymer modified screed which can be used as a high performance floor finish or as a levelling and/ or intermediate screed, in situations where conventional concrete, cement screeds and granolithic screeds cannot provide adequate performance.

Due to the polymeric action of the modified styrene butadiene emulsion, Rizistal Crete polymer screed has superior substrate adhesion, good compressive, tensile and flexural strengths. Rizistal Crete polymer flooring also provides chemical, slip and temperature resistance and has greatly reduced permeability. Rizistal Crete is ideal for overlaying with the full range of John Lord resin flooring and tiling products.

Abrasion and impact resistant

Low permeability

Slip resistant

Key Benefits

- Excellent substrate adhesion
- Good compressive strength
- Non toxic
- Thermal shock resistant

Physical Properties Complies with BS 82

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

Primer(s):	1 application Rizistal Crete primer
System:	1 application of bonding grout plus 1 application Rizistal Crete screed
Sealer Coat(s):	None
Optional Variations:	Clear, urethane sealer coats

System Details:

Finish:	Uniform profile/matt
Thickness:	12mm to 15mm for a finishing screed. Minimum of 12mm for a levelling/fall screed.
Colour:	Grey, Red, Green, Buff or Brown

Chemical Resistance

Resistant to a limited range of dilute chemicals, alkalis, acids, oils, greases and salt solutions. 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:

Foot Traffic:	24 hours to 72 hours
Heavy Traffic:	120 hours
Full Cure:	7 to 10 days

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

Compressive Strength:	59 N/mm²
Flexural Strength:	8 N/mm²
Tensile Strength:	6 N/mm²
Bond Strength to Concrete:	Failure in Concrete
Temperature Resistance:	Constant 5°C to 90°C
Flash Steam Cleanable:	Yes
Water Permeability (after 72 hours immersion):	2.0%

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

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

- Dry and Wet Processing Areas, eg. Food Processing
- Engineering and Manufacturing Facilities
- Warehousing
- Intermediate Screed for Resin-Based Finishes
- Workshops and Plant Rooms

Substrate Suitability and Preparation

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

Application Temperature

Air temperatures should be maintained between 8°C and 25°C during the application of this product. We also strongly recommend that the application area is maintained to temperatures of between 8°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 10°C minimum temperature for 12 hours prior to application. Ensure adequate ventilation during application.

Priming

The dry, prepared, dust-free substrate should receive a roller-applied coat of Rizistal Crete primer. For maximum adhesion the primer should be allowed to cure overnight before overlaying the following day.

System Application

A bonding grout should be liberally applied by brush to the primed substrate immediately prior to the application of the Rizistal Crete screed. If it reaches initial cure prior to overlaying, a further application must be made. To mix the Rizistal Crete screed, blend the graded aggregates, chippings and OP cement with the latex polymer in a forced rotation mixer, then add pure water to achieve the desired, semi dry consistency. Apply the screed with a plastic or steel float to a thickness of 12mm-15mm for a finishing screed and a minimum of 12mm for a levelling or fall screed. Rizistal Crete can be used to create falls either by a ramp between different levels or by comprehensive floor falls to drainage. A multilayer application with structural mesh reinforcements is recommended for thicknesses over 75mm. After application the screed should be conditioned under lapped polythene for 24hours to 48hours to ensure hydration of the cement.

Inints

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

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 hot water washing (up to 90°C) with suitable detergent products – see John Lord Cleaning Guide for further details
- Flash steam cleaning 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.

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