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Technical Data: TD087
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RYEFLOR SL SELF-LEVELLING POLYURETHANE FLOORING

DESCRIPTION

Ryeflor SL is a medium duty, flow applied, smooth flooring based upon polyurethane technology, which provides excellent resistances to abrasion, chemical attack and physical aggression.

Composition

Water dispersed resin combined with reactive polyurethane hardener reinforced with graded silica aggregates.

Appearance

Seamless, matt, smooth finish with uniform colour. Ryeflor SL is not colour fast and may change colour over time if subjected to UV light. This is more apparent in light colours, but does not compromise the integrity or product performance.

Durability

Highest order of durability, resistance to abrasion, impact and chemical attack.

Thickness

Ryeflor SL is designed for application between 2.0 and 2.5mm.

TYPICAL INSTALLATIONS

Ryeflor SL is ideally suited to areas subject to heavy duty use:-

- Chemical processing
- Food processing/wet areas
- Brewing/dairy clean areas
- Engineering process areas

Substrates

Concrete, polymer reinforced screeds, grano concrete, mild steel and water resistant plyboard.

Surface Preparation

To be assured of maximum adhesion and properties from Ryebrook resin products, the correct surface preparation is essential. Please refer to technical data

sheet "Surface Preparation" reference TD102.

In order to ensure the finish system remains fully bonded to the subfloor, it is recommended that the edges of the floor areas adjoining the walls are rebated to produce a cross-section of 20mm deep by 8mm wide, running at 150mm from and parallel with the walls.

Application Conditions

Between 5°C and 30°C. Maximum relative humidity in the substrate 75RH..

Priming

Priming of all surfaces should be undertaken with Ryepime SF. Please refer to technical data sheet reference TD002. The primer should be allowed to cure for a minimum of 16 hours prior to application of the Ryeflor SL system. (Maximum overcoating time at 20°C -48 hours).

Mixing

Ryeflor SL is a three-component product. Pre-mixing of the coloured liquid resin component is recommended to ensure any light settlement is reincorporated. Thoroughly drain the contents of the brown hardener component into the liquid colour component and mix for a minimum of 1 minute or until a homogeneous mix is obtained. The resultant resin blend should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump-free, smooth mix is obtained.

Application Technique

This product is laid in compliance with BS 8204-6 Type 8. Apply to pre-primed areas, levelling to the required thickness with a steel trowel aided by a Ryebrook spiked roller. Spiked rolling should be effected within three minutes of application to avoid interfering with the flow and film gel times.

Coverage Rates

Nominal thickness	2.0mm	2.5mm
Coverage - kg/m ²	3.63	4.54



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SPECIFICATION DETAIL

Ryepime SF applied at 125g/m².
Ryeflor SL at coverage rates quoted above.

Maintenance

Providing contamination is not allowed to build up, regular scrubbing and mopping will maintain these systems in serviceable conditions. Normal proprietary cleaning agents in combination with pressure washing may be employed.

Cure Schedule @ 20°C

Usable Life of Full Unit/Mix	15 mins
Initial Film Gel Time (joining up)	20 mins
Cure Time to Light Pedestrian Traffic	5-7 hours
Cure Time to Light Wheeled Traffic	12-16 hours
Cure Time to Heavy Duty Traffic	24 hours
Full Cure	3-5 days

Chemical Resistance

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Please refer to technical data sheet reference TD112.

Colours Available

All standard Ryebrook colours except White, Blue and Magnolia.

TECHNICAL DATA

Compressive Strength to BS6319 Part 2	62.0N/mm ²
Tensile Strength to BS2782; 320D	12.0N/mm ²
Flexural Strength to ASTM D790	40.0N/mm ²
Elastic Modulus to BS2782; 320D	1530.0N/mm ²
Slant Shear Bond Strength to BS6319	55.0N/mm ²
Abrasion Resistance (Taber/1000g/H18 wheel)	900mg loss/ 1000 cycles
RRL Slip Resistance	80 Dry; 45 Wet

Health and Safety

Please read technical data sheet reference TD103 and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

Storage, Mixing & Application

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet reference TD104.

Technical Advice

For further information on this or any other Ryebrook product, please contact our Technical Department on 01293 565500.