

RYEFLOH HF HEAVY DUTY POLYURETHANE FLOORING



DESCRIPTION

Ryeflor HF is a heavy duty polyurethane based floor designed to provide excellent resistances to abrasion, chemical attack and other physical aggression. This product is laid in compliance with BS 8204-6 Type 8.

Composition

Water dispersed polyurethane resin system combined with graded silica aggregates.

Appearance

A level mottled aggregate surface with chosen background colour providing a light slip resistant texture. Ryeflor HF 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, resistances to abrasion impact and chemical attack. Stable to steam cleaning.

Thickness

Typical 9mm or 6mm.

TYPICAL INSTALLATIONS

Heavy duty situations to contact:-

Chemical processing

Food processing

Brewing

Heavy duty traffic and plant vehicles

Engineering process areas

Substrates

Concrete, polymer reinforces screeds, grano concrete.

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 finished system remains fully bonded to the subfloor, it is recommended that the edges of the floor area 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

5-30°C Maximum relative humidity in substrate 75RH..

Priming

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



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When applying Ryeflor HF into wet primer, Ryepime TC should be employed. Please refer to TD001.

Mixing

Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is reincorporated. Thoroughly scrape the contents of the liquid colour component into the brown hardener component and mix with a slow speed electric stirrer for a minimum of 1 minute or to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump free mix is obtained. Apply to pre-primed areas and level between battens as necessary, with a steel float. Final finishing may be effected by "back rolling" with a short nap paint roller.

Coverage Rates

18kg/m² at 9mm or 12kg/m² at 6mm.

SPECIFICATION DETAIL

Ryepime SF at approx 125g/m². Please refer to technical data sheet reference TD002.

Ryeflor HF at 9mm or 6mm.

Maintenance

Regular cleaning of the applied system is recommended in order to maintain slip resistant properties and cosmetics.

Normal proprietary cleaning agents in combination with pressure washing/steam cleaning may be employed.

Cure Schedule @ 20°C at 9mm

Usable Life of full unit/mix	15 mins
Initial Firm Gel Time (joining up)	20 mins
Cure Time to Light Traffic	4-6 hours
Cure Time to Light Wheeled Traffic	12-16 hours
Cure Time to Heavy Duty Traffic	24 hours
Full Cure Time	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 (N/mm²)

Compressive Strength to BS6319	59.0
Tensile Strength to BS2782:320D	6.5
Flexural Strength to ASTM D790-84a	40.0
Elastic Modulus to BS2782:320D	1350.0
Slant Shear Bond Strength	51.0
Abrasion resistance Taber mg loss/cycles	1100/kg
	H18 Wheel
RRL slip resistance	50 Wet
	76 Dry
Surface spread of flame to BS476 Part 7	Class 2

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.