

## Ryeflor HF



### Polyurethane Resin Floor - FeRFA Type 8

Heavy Duty Resin Flooring >6mm

#### Description

A level mottled aggregate surface with chosen background colour, Ryeflor HF is a heavy duty polyurethane water based resin floor. It is designed to provide excellent resistances to abrasion, chemical attack and other physical aggression with good slip resistant properties.

#### ADVANTAGES & BENEFITS

- ✓ Good Slip Resistance
- ✓ Hard Wearing
- ✓ Easily Maintained
- ✓ Excellent Impact Resistance
- ✓ Excellent Resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents

#### TYPICAL AREA OF USE

- ✓ Chemical Processing
- ✓ Food Processing
- ✓ Hotel & Restaurant Kitchens
- ✓ Brewing
- ✓ Heavy duty traffic & plant vehicles areas
- ✓ Engineering process areas
- ✓ CRYO & Nitrogen filling areas
- ✓ MOD vehicle storage

#### TECHNICAL DATA (N/mm<sup>2</sup>)

Compressive Strength to BS6319	59
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	1100kg H18 Wheel
Slip Resistance	Low
Surface Spread of flame to BS476 Part 7	Class 2

#### 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 at 9mm thickness.

#### 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

A range of colour choices are available, please contact our Sales Team for a colour chart.

## Ryeflor HF

### Substrates

Concrete, polymer reinforces screeds, grano concrete, certain marine ply substrates (subject to thickness and fixings).

### Coverage Rates

18kg/m<sup>2</sup> at 9mm

### 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 6mm deep by 6mm wide, running at 150mm from and parallel with the walls.

### Application Conditions

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

### Priming

Priming of surfaces if required should be undertaken with Ryepime SF. This primer should be allowed to cure for a minimum of 6 hours prior to application of the Ryeflor HF system. (Maximum over coating time at 20°C - 48 hours).

### 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.

### Specification Detail

Ryepime SF at approx. 125g/m<sup>2</sup>. Please refer to technical data sheet reference TD008.

Ryeflor HF at 9mm

### Cure Schedule

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

### 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.

### 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 and Application

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

### Further Technical Advice

For further information on this or any other Ryebrook product, please contact our Technical Department on 01634 957520 or email [info@ryebrook.co.uk](mailto:info@ryebrook.co.uk)