

## RYEFLOOR MD FLOW APPLIED POLYURETHANE FLOORING



### DESCRIPTION

The Ryefloor MD system is a heavy duty flow applied topping based upon polyurethane technology which provides excellent resistances to abrasion, chemical attack and other physical aggression.

### Composition

Water dispersed polyurethane resin system combined with graded silica aggregates.

### Appearance

Totally seamless matt, smooth finish of uniform colour. Ryefloor MD 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 and penetration.

### Thickness

Ryefloor MD - Applied between 4.0 and 6.0mm.

### TYPICAL INSTALLATIONS

The Ryefloor MD system 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 finished 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

5°C-30°C Maximum moisture content of substrate 10%.

### Priming

Priming of all surfaces should be undertaken with Ryepriime 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 Ryefloor MD system. (Maximum overcoating time at 20°C - 48 hours).



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## 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 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.

## 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 and aided by a Ryebrook spiked roller. Spiked rolling should be carried out within 3 minutes of application in order to avoid interfering with the film gel time.

## Coverage Rates

Ryeflor MD at	4mm	5mm	6mm
Coverage kg/m <sup>2</sup>	7.6	9.5	11.4

## SPECIFICATION DETAIL

Ryepime SF at 100-175g/m<sup>2</sup>. Please refer to technical data sheet TD002.

Ryeflor MD at coverage rates as above.

## Maintenance

Providing contamination is not allowed to build up, regular scrubbing and mopping will maintain these systems in serviceable condition.

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 Traffic	4-6 hours
Cure Time to Light Wheeled Traffic	16 hours
Cure Time to Heavy Duty Traffic	48 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 (N/mm<sup>2</sup>)

Compressive Strength to BS6319 Part 2	62.0
Tensile Strength to BS2782:320D	15.0
Flexural Strength to ASTM D790-84a	35.0
Elastic Modulus to BS2782:320D	1530.0
Slant Shear Bond Strength to BS6319	55.0
Abrasion Resistance Taber mg loss/ 1000 cycles/1000g/H18 Wheel	900
RRL Slip Resistance	45 Wet; 60 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.