



RYEGRIP HD SKID RESISTANT BINDER

DESCRIPTION

Ryegrip HD is a heavy duty solvent free flow applied binder system designed for the incorporation of skid resistant aggregate within its surface to provide a high durability slip resistant surface for treads and walkways.

Composition

Solvent free pigmented polyurethane resin system with graded aggregate.

Appearance

Smooth glossy surface incorporating skid resistant grit/aggregate.

Durability

Excellent long term resistances to abrasion, impact and chemical spillage.

Thickness

Nominal 2mm (excluding aggregate profile).

TYPICAL INSTALLATIONS

- Roads: Approaches to traffic lights and roundabouts, motorway deceleration lanes, etc.
- Wet Process Areas: Machine shops, food process areas, oil rig platforms.
- Pedestrian Walkways: Industrial tank farms, animal pens, airport walkways.
- Parking Zones: Turning circles and braking zones at junctions.

Substrates

Tarmac, concrete, grano, wood, asphalt.

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.

Application Conditions

5°C-25°C. Ideally 20°C. If possible protect from adverse weather conditions during early cure stages.

Priming

Usually no priming will be necessary but on particularly porous surfaces (wood, concrete, grano) a pre-treatment with Ryepime SF is recommended. Please refer to technical data sheet reference TD002.

Mixing

All materials are provided in pre-proportioned units. Mixing of part units is not recommended due to the possibility of proportioning errors. Mixing of the resin component is recommended before mixing the two liquid components. Mix both liquid components together for a minimum of two minutes with a slow speed electric stirrer until a homogeneous mix is obtained, finally adding the powder component in stages.

Application Technique

This product is laid in compliance with BS 8204-6 Type 4. Apply by pouring over large areas finally spreading to a nominal 2mm build with a steel float. Smaller areas or strip coating may be applied liberally by paint brush.

Levelling and debubbling of large areas may be aided by use of a Ryebrook spiked roller.

As soon as possible after application of the coating, graded aggregate may be cast over the surface at the required density.

The choice of aggregate size should be restricted between 1.5-4mm. This will provide a wide choice of textures from light to heavy duty.

The type of choice of aggregate used can vary but consideration should be given to the durability factor. Typical types would include:-

Calcined bauxite, flintag, granite chips, reclaimed carborundum, silicon carbide or ground coconut shell.



Coverage Rates

At 2mm (1.5-2.5mm) –3.3kg m².

Specification

1 coat Ryegrip HD.
1 scatter of Aggregate to desired texture.

Maintenance

High pressure washing aided by light brushing will reduce build up of dirt and process materials. Resistant to most industrial cleaning solutions. In heavy duty situations where dirt build up is problematic combined with regular washing down processes, an additional coat of Ryethane 500 may be applied after the aggregate has been incorporated. Please see technical data sheet reference TD025.

Cure Schedule @ 20°C

Initial Film Set Time	30 mins
Cure to Light Foot Traffic	2 hours
Cure to Heavy Duty Traffic	4 hours
Full Cure to Chemical Resistance	4 days
Pot Life of Full 25kg Mix	10-15 mins

Chemical Resistance

Excellent resistances to a wide range of chemicals and cleaning agents. Please refer to technical data sheet reference TD115.

Colours Available

Available as an opaque grey finish only.

TECHNICAL DATA

Compressive Strength	37-42N/mm ²
Flexural Strength	35-40N/mm ²
Slant Shear Bond Strength	30N/mm ²
Abrasion Resistance (binder only)	3mg loss/1000 cycle at 1kg load with CS17 Wheels

	WET	DRY
Skid Resistance (binder only)	40-48	80-90
RRL Pendulum		
"Tortus" tester	0.6-0.7	0.5
Coefficient of friction	0.45	0.85

Slip resistance factors have been quoted for the resin system only as differing sizes and type of aggregate will cause significant variation in valued and in the instance of highly profiled applications, testing will not be possible.

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.