

RYEFAST UNIVERSAL FLOOR SCREED



A single component, quick hardening, cement based screed for levelling floors.

Ryefast Industrial Top can be laid at thicknesses up to 20 mm, with a minimum of 7mm when pumped or 4mm when laid by hand.

Uses

For Fast Track refurbishment and new construction, for smoothing floors in factories, workshops, warehouses etc. where there is a demand for a smooth surface.

Ryefast Industrial Top may be used alone or with a seal coat.

Ryefast Industrial Top can be used in combination with a Ryebrook Resins resin topping to provide better aesthetics and increased resistance to wear and chemical attack.

Please note that if Ryefast is used alone or with a clear seal coat there will be colour variation to the surface.

Benefits

- ✓ Quick drying.
- ✓ Self smoothing (above 7 mm).
- ✓ Walk on after 2 - 4 hours under normal conditions.
- ✓ Normally cover after 24 hours at screed thicknesses up to 10 mm.
- ✓ Pumpable or hand laid.
- ✓ Single pack.
- ✓ Protein free.

Base Concrete

The subfloor is to be minimum 25 N/mm² sound concrete.

Temperature & Relative Humidity

Internal air and floor temperatures must exceed +6°C. The RH of the concrete base must not exceed 95%, but where floor finishes are to be laid soon after Ryefast Industrial Top application, the RH of the concrete base must be below 75%.

If above 75% RH, use Ryebrook Resins Hydraseal damp proof membrane between the concrete and Ryefast Industrial Top.

SPECIFICATION

Surface Preparation

Enclosed shot blasting, scabbling or power grinding. All residues must be removed by vacuum cleaning to provide a dry, dust free open textured surface.

All openings and holes in the floor to be sealed to prevent leaks.

Bonding and Priming

For dry concrete bases use Ryepime, an epoxy primer, with a full blind of dry 1- 2 mm silica sand.

For concrete with a moisture content above 75% RH, 2 coats of Hydraseal DPM should be used with a full blind of dry 1 - 2 mm silica sand into the second coat.

Remove excess sand when the primer has cured, normally overnight (12 - 16 hours).

In areas of only light foot traffic the base may be primed with Ryefast Primer (acrylic polymer primer) diluted 1 part primer to 5 parts water. Brush the primer out over the floor and leave to dry before applying the Ryefast Industrial Top.

On Ryebrook Resins Industrial Base, a light abrasion and vacuum clean is required followed by a coat of Ryefast Primer.



Mixing

By heavy duty electric drill and helical mixer (minimum mix time 60 seconds), or continuous mixer/pump unit using clean drinking water at typically 4.5 to 5 litres per 25 kg bag.

The mixed product is then run through the hose into a suitable container for one minute and a flow fest using a Ryebrook flowcup carried out on the material to ensure that it meets the required standard prior to applying the product to the floor.

Excess water may lead to a friable surface and will reduce the strength of the screed.

Do not mix more compound than can be applied in 20 minutes.

Working temperature of the mix must be in the range 6 - 25°C. Use warm water in cold conditions.

Application

Pour or pump the mix over the floor surface. For pumped application, ensure the continuity of electricity and water supplies is secured. Pump the Ryefast Industrial Top onto the floor in a continuous operation, feeding fresh material into a wet edge. It will level out to a smooth even finish. Where necessary, release small air bubbles from the screed with a serrated trowel, spiked roller or tee-bar. This practice must be adopted within 5 minutes of application to avoid interfering with final levelling properties.

Protection on Completion

Ensure the Ryefast Industrial Top is not subject to draughts during the first 6 hours of curing as this may lead to cracking and crazing.

Tape up doorways with polythene if necessary to prevent air movement during application. Subsequently

ensure the room has sufficient ventilation to allow the screed to dry.

Ensure adequate protection from other trades and traffic after installation. Prevent contamination by following trades e.g. plastering, including water contact.

Hardening and Drying Times

The Ryefast may be walked on after 2 to 4 hours, and may be sanded if required 24 hours after application.

Where a floor finish is to be installed, it may be installed after 24 to 48 hours, depending on the type of finish, thickness of Ryefast Industrial Top, substrate and ambient conditions.

Overcoating

Before installation of resin finishes or floor coverings, the requirements for critical moisture contents for the particular floor coverings have to be observed.

Prior to laying a resin topping, prepare the Ryefast Industrial Top by light abrasion and vacuum cleaning, and prime with the appropriate primer for the topping such as Ryepriime.

Substrate Movement

All moving joints must be carried through the Ryefast Industrial Top and properly sealed. Construction joints and cracks may be covered but if substrate movement occurs the Ryefast Industrial Top will reflect he crack.

Physical Properties

Compressive strength (28 days)
nominal 30 N/mm²
Adhesion (28 days) >1 N/mm²
Protein content Nil
Recommended thickness
4 - 20 mm by hand
7 - 20 mm by pump

Laying temperature 6 - 25 °C
Working time 20 minutes at 20 °C
Walk on time 2 - 4 hours at 20 °C
Overcoating time (20 °C, 50% RH) 10 mm thick - 1 day
(dependant upon thickness, ambient conditions & substrate condition)
Flow Ring (65 mm diam x 40 mm high)
230 – 250 mm

Model Specification

Ryefast Industrial Top to be supplied and laid on a suitable sound and vacuum cleaned concrete or screed base primed scatter.

minimum thickness 4 mm by hand or 7mm by pump and maximum thickness 20mm.

To be mixed and laid in accordance with the instructions of Ryebrook Resins Systems Limited.
Packaging

Available in nominal 25 kg bags.
Coverage
1.7 kg/m² per mm thickness.
11.9 kg/m² at 7 mm
17.0 kg/m² at 10 mm
25.5 kg/m² at 15 mm
34.0 kg/m² at 20 mm

Storage & Shelf Life

Stored unopened in dry conditions, shelf life will be 6 months.

Health & Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from Ryebrook Resins on request and sent with each delivery.

Technical Advice

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