

TECHNICAL DATA SHEET

INDUSTRIAL FLOOR SCREED - HD

Heavy duty industrial floor screed for harsh environments

DESCRIPTION

ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED (RB 2.10) powder is a pre-mixed, ready to use, polymer modified cementitious floor screed powder. The compound contains a unique blend of special cements, graded bauxite sands, fibres and a union of admixtures. The powder, when mixed with water, produces a mobile, self smoothing, fibre reinforced screed which rapidly hardens to provide a thin section, strong bonding, heavy-duty, durable and protective cover to concrete. The material is packaged in 20kg valve bags and has a shelf life of 12 months in dry storage.



SPECIAL PROPERTIES

- Quickly and easily mixed, poured, placed and finished.
- Mobile, self smoothing, and will not segregate, bleed or dust.
- Only 6mm cover to concrete is required.
- Portland cement based, microsilica enhanced, acrylic polymer resin modified, shrinkage compensated, fibre reinforced and self curing.
- Quick strength for early trafficking, strong bonding and high ultimate strength.
- Stainless steel fibre reinforced: hard wearing, resistant to point loads, impact and abrasion.
- Tough: high tensile strength, durable to cyclic loading and vibrational stresses.
- Impermeable and dense, and will resist corrosive chemicals.
- High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES

- In areas where there is heavy and frequent vehicular traffic.
- In heavy engineering workshops, railway workshops, docks and shipyards.
- In heavy and massive machine assembly plants and factories.
- On roads and areas where the traffic is steel wheeled or on caterpillars.
- To repair and protect concrete against heavy equipment, loading buckets, shovels and grabs.
- To protect concrete in chemically aggressive environments such as: chemical works and stores, food processing factories, breweries, dairies and farms.

MIXING INSTRUCTIONS

Rockbond Industrial Floor Screed HD powder is mixed with water using a Rockbond Concrete Stirrer, a pneumatic or electric power tool (1kW) and a Rockbond 25 litre mixing container. Use a high speed, high shear, forced action paddle mixer to mix larger amounts of material.

- Add 3.25 litres of water to the container or mixer.
- Pour 25kg of powder onto the water while mixing.
- After all the powder has been added, mix for 30 seconds.
- The Industrial Floor Screed is now ready for use.

Alternatively, small amounts of the material can be prepared by slowly adding the powder to a quantity of water in a suitable container and mixing to the required consistency.

APPLICATION PROCEDURE

Careful and proper preparation of the concrete substrate is essential if a successful screed is to be placed. The durability of the hardened screed can only be as good as the integrity of the base concrete and substrate.

Mechanically scabble and abrade the surface where necessary to produce a good, sound, rough substrate with a good, rough mechanical key. (No shot blast or blast track). All traces of contamination must be removed. Vacuum clean or blow away all dust and debris.

Apply Rockbond Primer Latex to penetrate, consolidate, strengthen and seal the concrete. With a brush or a soft broom, brush the latex completely and evenly over the surface.

Work the liquid well into the substrate, and spread any puddles of latex over the surrounding concrete. Let the latex dry out, usually 15 to 20 minutes depending on conditions.

To prime the substrate and enhance the bond, apply a second coat of latex. Normally, 1 litre of Rockbond Primer Latex will treat 5m² of concrete surface with two coat application. However, if the concrete is weak or porous, a third coat should be applied. Let the latex dry out before placing the screed. To ensure that the correct amount of screed is applied, calculate the surface area of the concrete to be treated.

1 x 25kg bag covers 2.0m² of concrete surface at a depth of 6.0mm.

Set out the number of bags accordingly. The minimum recommended cover of the screed to concrete is 6mm and the maximum recommended cover is 24mm. Mix the powder with water (maximum water content is 3.25 litres of water/25kg bag of powder), and pour the material evenly over the concrete and in such a way as to avoid the entrapment of air. Do not over agitate the screed or cause the fibre to segregate. If necessary, spread the screed with a steel float to give a uniform cover, level and finish off with a Rockbond Spiked Roller. Beware, over spiking the screed with sink the bauxite sands and steel fibre.

For patch repairs to concrete floors and roadways, prepare the substrate as outlined above. Square cut the concrete to a depth of not less than 6mm at the perimeter of the repair. Mix, pour and level the screed to the profile of the surrounding concrete. After the screed has set, at 2 hours depending on conditions, apply 1 coat of Rockbond Primer Latex to seal the surface.

HEALTH, SAFETY AND STORAGE

Rockbond Industrial Floor Screed HD powder is non toxic and safe to use. However, use the same precautions as with any cementitious product: wear goggles, protective clothing and a dust mask while mixing and applying the material. Beware: the material contains steel fibres. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

Rockbond Primer Latex is non toxic and safe to use. However, if splashes enter the eyes, the latex must be immediately washed out with plenty of clean running water. Continue the treatment for several minutes with the eyelids kept open. If the latex is ingested, give the patient plenty of water to drink. Wear goggles, a mask and protective clothing while handling, spraying and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

TECHNICAL DATA

TYPICAL DATA at 13% water/powder ratio at 20°C

CONSISTENCY: Mobile screed
CONSISTENCY LIFE: 30 minutes
DENSITY: 2400kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28 Days
2	12	30	50	75 MPa

YIELD:

25kg of powder yields 12.00 litres of Heavy Duty Industrial Floor Screed
25kg of powder treats 2m² of concrete at 6mm cover
1m³ of Heavy Duty Industrial Floor Screed requires 2.100 tonnes of powder

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**