

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS

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ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED

DESCRIPTION:

ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED (RB HDIFS) 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, steel fibres and a union of admixtures. The powder, when mixed with water, produces a mobile, self smoothing, steel reinforced screed which rapidly hardens to provide a strong bonding, high quality, durable and protective cover to concrete. The material is packaged in 25kg moisture proof, durable bags and has a shelf life of 2 years.

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.
- * Microsilica enhanced, polymer modified, shrinkage compensated and self curing.
- * Quick strength for early trafficking, strong bonding and high ultimate strength.
- * Steel reinforced: hard wearing, resistant to point loads, impact and abrasion.
- * Tough: high tensile strength, durable to cyclic and vibrational stresses.
- * Impermeable and dense, and will resist corrosive chemicals.
- * Economical, non flammable, non toxic, user friendly and safe to use.

USES:

- + In areas where there is heavy and frequent vehicular traffic.
- + In heavy engineering and railway workshops 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 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 HEAVY DUTY INDUSTRIAL FLOOR SCREED powder is mixed with water using a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC), a pneumatic or electric power tool (1kW), and a ROCKBOND STIRRER (RB S). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 3.50 litres of water to the container or mixer.
Pour 25kg of powder onto the water while mixing.
For batches of 2 or more bags, repeat the procedure.
After all the powder has been added, mix for 30 seconds.
The 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 and mixing to the required consistency.

ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED (RB HDIFS) CONTINUED...

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.

Thoroughly and completely abrade the surface where necessary to produce a sound substrate with a good mechanical key. All traces of contamination must be removed. Vacuum clean or blow away all dust and debris.

Apply ROCKBOND PRIMER LATEX (RB PL) 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, apply a second coat of latex. Normally, 1 litre of ROCKBOND PRIMER LATEX (RB PL) will treat 5m² of concrete surface with 2 coats of latex. 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 3.50 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 (RB SR). Beware, over spiking the screed will 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 at least 6mm at the perimeter of the repair. Mix, pour and level the screed to the height of the surrounding concrete.

After the screed has set, at 1 to 2 hours depending on conditions, apply 1 coat of ROCKBOND PRIMER LATEX (RB PL), to seal the surface.

HEALTH AND SAFETY:

ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED (RB HDIFS) 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.

ROCKBOND PRIMER LATEX (RB PL) 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.

ROCKBOND HEAVY DUTY INDUSTRIAL FLOOR SCREED (RB HDIFS), CONTINUED...

TECHNICAL DATA:

TYPICAL DATA at 14% water/powder ratio at 20°C

CONSISTENCY: Mobile screed
CONSISTENCY LIFE: 20 minutes

DENSITY: 2200kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28	Days
2	12	30	50	70	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

FURTHER INFORMATION:

Should you require further information on this product, or details of other ROCKBOND SPECIAL CONCRETE PRODUCTS, then please do contact our Technical Department:

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IMPORTANT NOTE:

ROCKBOND SCP LTD provides the above information in good faith and without warranty. The data represents typical values which can be updated at any time, and this information supersedes previous issues. No liability can be accepted for any damage or loss arising from the use of ROCKBOND SCP LTD literature or its products, because the company has no continuous control on how the products are mixed, placed or cured.

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