ROCK BOND

ROCKBOND SCP LTD

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

Newton's Farm Estate, Wissington, Nayland, Suffolk.CO6 4LX, England
Telephone: 01206 265116 Facsimile: 01206 265117
Email: info@rockbond.co.uk Website: www.rockbond.co.uk

ROCKBOND INDUSTRIAL FLOOR SCREED

DESCRIPTION:

ROCKBOND INDUSTRIAL FLOOR SCREED (RB IFS) powder is a pre-mixed, ready to use, polymer modified cementitious floor screed powder. The compound contains a unique blend of special cements, graded silica sands, acrylic co polymer powders and a union of admixtures. The powder, when mixed with water, produces a fluid screed which is self smoothing and self levelling. The material hardens to provide an anti shrink, strong bonding, thin section, high quality, durable floor. The powder is packaged in 25kg moisture proof, durable bags and has a shelf life of 5 years.

SPECIAL PROPERTIES:

* Quickly and easily mixed, pumped, placed and finished.
* Fluid flow, self smoothing, self levelling, and will not segregate, bleed or dust.
* Can be applied to give a cover of 25mm down to a feather edge.
* Portland cement based, microsilica enhanced, acrylic polymer resin modified, shrinkage compensated, fibre reinforced and self curing.
* Quick strength for early trafficking, and high ultimate strength.
* Quick drying: solvent based resin toppings can be applied after a few hours.
* Strong bonding, wear resistant and durable to mechanical attack.
* Impermeable, waterproof and dense, and will resist corrosive chemicals.
* Alternative material to resin screeds, and cost effective.
* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

+ To cover concrete floors in workshops, warehouses and factories with a thin section topping.
+ To repair concrete floors, pathways, loading bays, car parks and roads.
+ To protect concrete in chemically aggressive environments such as: chemical works and stores, food processing factories, breweries, dairies and farms.
+ To produce flat, level, smooth, attractive surfaces to concrete whenever required.
+ To install anti slip surfaces to concrete floors, paths, ramps, slopes and steps.

MIXING INSTRUCTIONS:

ROCKBOND INDUSTRIAL FLOOR SCREED powder is mixed using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Larger amounts of material may be mixed using a high speed, high shear, forced action paddle mixer.

Add 5.25 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 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 INDUSTRIAL FLOOR SCREED (RB IFS) 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 scabble the concrete surface (no shot blast or blast track) 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 out 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.

Use the ROCKBOND INDUSTRIAL FLOOR SCREED to fill any deep holes and ruts in the concrete, and let the material set prior to placing the screed. Then use one coat of ROCKBOND PRIMER LATEX (RB PL) to prime the surface.

To ensure that the correct amount of screed is applied, calculate the surface area of the concrete to be covered:

1 x 25kg bag covers 5m² of concrete surface at a depth of 2.8mm.

Set out the number of bags accordingly. The minimum recommended cover of the screed to concrete is 2.8mm, and the maximum recommended cover is 25mm.

Mix the powder with water at 21% water content (5.25 litres of water/25kg bag of powder), and pour the material onto the concrete in such a way as to avoid the entrapment of air. Do not over agitate the screed. Level and finish off with the use of a ROCKBOND SPIKED ROLLER (RB SR). For large areas of concrete, the compound can be mixed and pumped into place.

For patch repairs to concrete floors and roadways, prepare the substrate as outlined above. Square cut the concrete to a depth of at least 5mm 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 2 hours depending on conditions, apply one coat of ROCKBOND PRIMER LATEX (RB PL) to seal the surface. Do not apply the latex if a solvent based resin topping is to be applied.

Depending on the prevailing conditions, the screed will be sufficiently strong to take light traffic at 3 hours, and will take a solvent based resin topping at 24 hours.

Use ROCKBOND INDUSTRIAL FLOOR SCREED ACCELERATED at temperatures below 5ºC, or when a rapid gain in early strength is required at 20ºC.

Mix ROCKBOND INDUSTRIAL FLOOR SCREED ACCELERATED powder at 18% water content and brush apply 1mm of the screed as a paint on concrete surfaces to install safe and strong anti-slip surfaces. 2kg of powder mixed with 360ml of water will cover 1m^2 of concrete surface at a depth of 1mm. The coating will take pedestrian traffic at 2 hours and light vehicles at 12 hours at 20^{o}C.

ROCKBOND INDUSTRIAL FLOOR SCREED (RB IFS) CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND INDUSTRIAL FLOOR SCREED powder is non toxic and safe to use. However, use the same precautions as with any cementitious product: wear goggles, gloves, protective clothing and a dust mask while mixing and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

TECHNICAL DATA:

TYPICAL DATA at 21% water/powder ratio at 20ºC

CONSISTENCY:	Fluid screed
CONSISTENCY LIFE:	20 minutes
DENSITY:	2070kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28	Days
2	10	25	35	50	MPa

YIELD: 25kg of powder yields 14.00 litres of fluid screed.
25kg of powder treats 5m² of concrete at 2.8mm cover.
1m³ of industrial floor screed requires 1.800 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:

Gilbert Cox BSc,
Technical Director,

Rockbond SCP Ltd.,
Newton's Farm Estate,
Wissington,
Nayland, Suffolk,
CO6 4LX.
England.

Telephone: 01206 265116
Facsimile: 01206 265117

Email: info@rockbond.co.uk
Website: www.rockbond.co.uk

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.

FEBRUARY 2018