

TECHNICAL DATA SHEET

FLOOR LEVELLING COMPOUND

Self smoothing polymer-modified floor screed.

DESCRIPTION

Floor Levelling Compound powder is a mixture of special cement powders, fillers, finely graded silica sands, water dispersible co-polymer powders and a union of admixtures. The powder, when mixed with water, produces a fluid, self smoothing, self levelling, thin section, acrylic polymer modified cementitious floor screed. The material is used to level new and existing concrete floors, and to provide an underlayment to various floor toppings, carpets and tiles. The hardened compound is resistant to foot and light traffic. The powder is packaged in 20kg moisture proof, durable bags and has a shelf life of 5 years.



SPECIAL PROPERTIES

- All in the bag, premixed and ready to use.
- Quickly and easily mixed, pumped, placed and finished.
- Portland cement based, microsilica enhanced, acrylic polymer modified, shrinkage compensated and fibre reinforced.
- Fluid flow: produces smooth, level and flat surface without trowelling.
- Can cover concrete from 25mm down to a feather edge.
- Quick strength, strong bonding, self curing, non shrink and non curling.
- Quick drying.
- Floors can be trafficked within 2 hours and quickly returned to service.
- High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES

- To produce smooth and flat surfaces to concrete floors and cementitious surfaces.
- To level sloping floors to give a flat, level and horizontal surface.
- To repair, resurface and smooth damaged concrete floors, steps and pathways.
- To fill holes, ruts and depressions in cementitious floors.
- A quick drying underlayment to solvent based resin toppings and coatings.
- For use as a sub-floor underlayment to resin toppings, carpets, tiles, vinyl and linoleum.
- To provide an anti wearing surface to foot and light traffic.

MIXING INSTRUCTIONS

Rockbond FLC Underlayment Screed powder is mixed with water using a suitable container, a pneumatic or electric power tool with a Ribbon Mixer. Larger amounts of material may be mixed using a forced action paddle mixer.

- Add 4 litres of water to the container of mixer.
- Pour 20 kg 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 screed is now ready for use.

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 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 brush 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 latex will treat 5m² of concrete surface with 2 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 Floor Levelling Compound mixed at a stiff consistency to fill any deep holes and ruts in the substrate, and let the material set prior to placing the screed. Then use one coat of Primer Latex to prime the surface. To ensure that the correct amount of screed is applied, calculate the surface area of the concrete to be treated.

1 x 20kg bag covers 5m² of concrete surface at a depth of 2.3mm.

Set out the number of bags accordingly. The minimum recommended cover of the screed to concrete is 2.3mm, and the maximum recommended application cover is 25mm.

Mix the powder with water (4 litres of water/20kg 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. Use a spiked roller to level and smooth the edges of the material between pours. To cover 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 profile of the surrounding concrete.

HEALTH AND SAFETY

Rockbond Floor Levelling Compound (RB 2.07) 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.

TECHNICAL DATA

Water/ Powder Ratio	20%
Consistency/Life	Fluid Screed/20 Minutes
Density	2100kg/m ³

Minimum Compressive Strength	Hours	2			
	Days		1	7	10
	MPa	10	25	35	40

Yield: 20kg of powder yields 11.5lts of Floor Leveling Compound. 20kg of powder treats 5m² of concrete at 2.3mm cover or 1m³ at 11.5mm.

TECHNICAL INFORMATION

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