

**FORMULATORS, MANUFACTURERS AND CONSULTANTS OF  
SPECIAL CONCRETE PRODUCTS**

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Email: [info@rockbond.co.uk](mailto:info@rockbond.co.uk) Website: [www.rockbond.co.uk](http://www.rockbond.co.uk)ROCKBOND FLOOR LEVELLING COMPOUNDDESCRIPTION:

ROCKBOND FLOOR LEVELLING COMPOUND (RB FLC) powder is a mixture of special cement powders, fillers, finely graded 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 25kg 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 and linoleum.
- + To provide an anti wearing surface to foot and light traffic.

MIXING INSTRUCTIONS:

ROCKBOND FLOOR LEVELLING COMPOUND powder is mixed with water 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 5.00 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 Levelling Compound 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 FLOOR LEVELLING COMPOUND (RB FLC) 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 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 ROCKBOND PRIMER LATEX will treat 5m<sup>2</sup> 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 ROCKBOND 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 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 treated.

**1 x 25kg bag covers 5m<sup>2</sup> of concrete surface at a depth of 2.9mm.**

Set out the number of bags accordingly. The minimum recommended cover of the screed to concrete is 2.9mm, and the maximum recommended cover is 25mm.

Mix the powder with water (5.00 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. Use a Rockbond Spiked Roller (RB SR) 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, SAFETY AND STORAGE:

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.

ROCKBOND FLOOR LEVELLING COMPOUND 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. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

ROCKBOND FLOOR LEVELLING COMPOUND (RB FLC) CONTINUED...

TECHNICAL DATA:

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

CONSISTENCY: Fluid screed  
CONSISTENCY LIFE: 30 minutes

DENSITY: 2100kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

2 hours	1	7	28 Days
10	25	35	40 MPa

YIELD: 25kg of powder yields 14.50 litres of Floor Levelling Compound.  
25kg of powder treats 5m<sup>2</sup> of concrete at 2.9mm cover.  
1m<sup>3</sup> of Floor Levelling Compound requires 1.725 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:

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