

ROCKBOND_{SCP LTD}

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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

Telephone: 01206 265116 Email: info@rockbond.co.uk

Website: www.rockbond.co.uk

ROCKBOND FASTROCK GROUT AND CONCRETE

DESCRIPTION:

ROCKBOND FASTROCK GROUT (RB FRG) powder contains a blend of fine cement powders, high quality graded sands and a union of admixtures. The admixture also contains a unique system of chloride free accelerators. The powder is pre-mixed and ready to use and, when mixed with water, produces a fluid grout that develops an early gain in compressive strength. ROCKBOND FASTROCK CONCRETE (RB FRC) contains durable crushed rock sands and aggregates, and is applied to sections greater than 60mm deep. ROCKBOND FASTROCK GROUT and ROCKBOND FASTROCK CONCRETE powders are packaged in 25kg moisture proof, durable bags and have a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Quickly and easily mixed with water, poured and placed.
- * Fluid flow consistencies promote penetration into confined spaces.
- * Portland cement based, shrinkage compensated and microsilica enhanced.
- * Quick early strength: FASTROCK GROUT, 5MPa at 1 hour, 10MPa at 2 hours at 20°C.
- * High ultimate compressive strengths.
- * Excellent bond strength, and resistance to abrasion and mechanical attack.
- * Contains no chlorides, high alumina cement or other deleterious substances.
- * High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + In situations that require materials to gain a rapid development in early strength.
- + Repairs to warehouse and factory floors, car parks, forecourts, loading bays and ramps that require early trafficking.
- + Quick return to use for pathways, roadways, carriageway, taxiway and runway concrete.
- + Void filling applications that require early strength.
- + To provide early support to machine and structural baseplates.
- + Fixing in applications that require rapid early strength such as crash barriers, posts, signposts, manhole covers and rings, kerbs, drains and precast concrete.
- * Long lasting shelf life of 5 years or more when bags are stored in a cool, dry and dark place

MIXING INSTRUCTIONS:

ROCKBOND FASTROCK GROUT and ROCKBOND FASTROCK CONCRETE powders are mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), an electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 4.50 litres of water to the container or mixer.

Pour 25kg of the ROCKBOND FASTROCK GROUT powder onto the water while mixing.

After all the powder has been added, mix for 30 seconds.

The grout is now ready for use.

ROCKBOND FASTROCK CONCRETE is mixed with water at 12% water content:
3.0 litres of water/25kg bag.

ROCKBOND FASTROCK GROUT AND CONCRETE, MIXING INSTRUCTIONS CONTINUED...

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 give the appropriate consistency, not too stiff not too wet.

Use the minimum amount of mix water, and mix to obtain the correct consistency/flow of the product for the job in hand. Do not over water the mix.

APPLICATION PROCEDURE:

Ensure that all surfaces which ROCKBOND FASTROCK MATERIALS come into contact with are clean and dust free. All traces of contamination must be removed. A strong concrete substrate free of all friable material will enhance a good bond.

On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate, strengthen and seal the surface. With a brush or a soft broom, brush the latex completely and evenly over the surface. Work the latex well into the substrate. Pay particular attention to the edges of the repair, and brush the liquid at least 25mm beyond the perimeter of the repair area. Let the latex dry out, usually 15 to 30 minutes depending on conditions.

To prime the substrate and to enhance the bond, apply a second coat of the latex to the first coat. Normally, 1 litre of the ROCKBOND PRIMER LATEX will treat 5m² of concrete surface with a two coat application. Substrate surfaces without the use of the Primer Latex should be wet.

After the application of ROCKBOND FASTROCK MATERIALS, any exposed grout or concrete must be cured immediately with ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse curing conditions, repeat the procedure.

For applications in high volume/low surface area situations (sections greater than 60mm deep approximately), or where the material is exposed to abrasion or aggressive mechanical attack, ROCKBOND FASTROCK CONCRETE should be used.

For applications which require a non flow material, ROCKBOND FASTROCK MORTAR (RB FRM) should be used, and for sections at greater than 60mm approximately, ROCKBOND FASTROCK CONCRETE NON FLOW (RB FRC NF) should be used.

During winter weather work, or at temperatures below 5°C, ROCKBOND FASTROCK ACCELERATED GROUT (RB FRAG), or ROCKBOND FASTROCK ACCELERATED CONCRETE (RB FRAC) should be used.

TECHNICAL DATA:

ROCKBOND FASTROCK GROUT (RB FRG)

TYPICAL DATA at 18% water/powder ratio at 20°C

CONSISTENCY:		Fluid grout				
CONSISTENCY LIFE:		20 minutes				
DENSITY:		2150kg/m³				
MINIMUM COMPRESSIVE STRENGTH:						
1 hour	2 hours	1	7	28	Days	
5	10	20	40	60	MPa	
YIELD: 25kg of powder yields 12.50 litres of Fastrock Grout.						
1m³ of Fastrock Grout requires 2.000 tonnes of powder.						

ROCKBOND FASTROCK GROUT (RB FRG) AND CONCRETE (RB FRC) CONTINUED...

TECHNICAL DATA CONTINUED...

ROCKBOND FASTROCK CONCRETE (RB FRC)

TYPICAL DATA at 12% water/powder ratio at 20°C

CONSISTENCY: Flowing concrete
CONSISTENCY LIFE: 20 minutes

DENSITY: 2250kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28	Days
5	20	30	50	70	MPa

YIELD: 25kg of powder yields 12.00 litres of Fastrock Concrete.
1m³ of Fastrock Concrete requires 2.100 tonnes of powder.

HEALTH, SAFETY AND STORAGE:

ROCKBOND FASTROCK GROUT AND CONCRETE powders are 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.

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

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

https://rockbond.co.uk/wp-content/uploads/2019/04/PL03_05_01_1_Rockbond_Fastrock_GROUT_FRG_and_Concrete_FRC_February_2019.pdf

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.

MARCH 2025