

**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 FASTROCK ACCELERATED GROUT AND CONCRETE****DESCRIPTION:**

ROCKBOND FASTROCK ACCELERATED GROUT (RB FRAG) 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 premixed and ready to use and, when mixed with water, produces a fluid grout that develops a rapid gain in compressive strength.

ROCKBOND FASTROCK ACCELERATED CONCRETE (RB FRAC) contains a durable crushed rock aggregate, and is applied to sections greater than 60mm. The materials are used when a rapid early return to service is required at 20°C, or when ambient temperatures are low. The products are packaged in 25kg moisture proof, durable bags and have a shelf life of 5 years.

**SPECIAL PROPERTIES:**

- \* Readily and quickly mixed with water, poured and placed.
- \* Fluid flow consistencies promotes penetration into confined spaces.
- \* Portland cement based, shrinkage compensated and microsilica enhanced.
- \* Quick early strength: FRAG, 10MPa at 1 hour, 20MPa at 2 hours at 5°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 cementitious grouts and flowing concretes to gain a rapid development in early strength at 0°C to 10°C.
- + Repairs to factory floors, car parks, forecourts, loading bays and ramps that require early trafficking.
- + Quick return to use to pathways, roadways, carriageway, taxi-way and runway concrete.
- + Repairs to concrete in cold stores.
- + 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.

**MIXING INSTRUCTIONS:**

ROCKBOND FASTROCK ACCELERATED GROUT AND CONCRETE are 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). At 20°C and above, only mix amounts of Fastrock Grout and Concrete that can be comfortably placed in 10 minutes.

Add 4.00 litres of water to the container or mixer.

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

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

The Fastrock Accelerated Grout is now ready for use.

ROCKBOND FASTROCK ACCELERATED GROUT (RB FRAG) AND CONCRETE (RB FRAC),

MIXING INSTRUCTIONS CONTINUED...

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

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.

APPLICATION PROCEDURE:

Ensure that all surfaces which ROCKBOND FASTROCK ACCELERATED MATERIALS come into contact with are clean and dust free. 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. Let the latex dry out, usually 15 to 20 minutes depending on conditions.

If the substrate requires a primer, or to enhance the bond, apply a second coat of latex to the first coat. Normally, 1 litre of ROCKBOND PRIMER LATEX will treat 5m<sup>2</sup> of concrete surface with two coats of latex.

After the application of ROCKBOND FASTROCK ACCELERATED MATERIALS, any exposed material must be cured immediately with ROCKBOND CURE at the rate of 10m<sup>2</sup>/litre. During adverse curing conditions, repeat the procedure.

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

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

TECHNICAL DATA:

ROCKBOND FASTROCK ACCELERATED GROUT (RB FRAG)

TYPICAL DATA at 16% water/powder ratio at 5°C

CONSISTENCY: Fluid grout  
CONSISTENCY LIFE: 10 minutes  
DENSITY: 2150kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	3 hours	1	7	28 Days
10	20	25	35	50	80 MPa

YIELD: 25kg of powder yields 12.50 litres of Fastrock Accelerated Grout  
1m<sup>3</sup> of Fastrock Accelerated Grout requires 2.000 tonnes of powder.

ROCKBOND FASTROCK ACCELERATED GROUT (RB FRAC) AND CONCRETE (RB FRAC),

TECHNICAL DATA CONTINUED...

ROCKBOND FASTROCK ACCELERATED CONCRETE (RB FRAC)

TYPICAL DATA at 12% water/powder ratio at 5°C

CONSISTENCY: Flowing Concrete  
CONSISTENCY LIFE: 10 minutes

DENSITY: 2250kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	3 hours	1	7	28 Days
3	10	25	40	50	70 MPa

YIELD: 25kg of powder yields 11.25 litres of Fastrock Accelerated Concrete  
1m<sup>3</sup> of Fastrock Accelerated Concrete requires 2.200 tonnes of powder.

HEALTH, SAFETY AND STORAGE:

ROCKBOND FASTROCK ACCELERATED 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:

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IMPORTANT NOTE:

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