

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

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Telephone: 01206 2651126 Email: info@rockbond.co.ukwww.rockbond.co.uk**ROCKBOND FASTROCK SUPER ACCELERATED GROUT AND CONCRETE****DESCRIPTION:**

ROCKBOND FASTROCK SUPER ACCELERATED GROUT (RB FRSAG) powder contains a blend of fine cement powders, high quality graded crushed rock sands and a union of admixtures. The admixture also contains a unique system of chloride free accelerators. The powder, when mixed with water, produces a fluid grout that develops a rapid gain in compressive strength. ROCKBOND FASTROCK SUPER ACCELERATED CONCRETE (RB FRSAC) 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, or during winter weather work. The products are ready to use, 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 promote penetration into cracked surfaces and confined spaces.
- * Portland cement based, shrinkage compensated and microsilica enhanced.
- * Rapid early strength development: RB FRSAG, 25MPa at 2 hours, 50MPa at 4 hours at 5°C!
- * Very high ultimate compressive and mechanical strengths.
- * Excellent bond strength, and resistance to shock, 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.
- * Long lasting shelf life of 5 years or more when bags are stored in a cool, dry and dark place

USES:

- + In situations that require a rapid development in early strength at 0°C to 10°C.
- + Quick returns to use for motorway carriageway concrete, runways, taxi ways, roadways, pathways, car parks when ambient temperatures are low.
- + Repairs at freezing ambient temperatures to factory floors, car parks, forecourts, loading bays and ramps that require early trafficking.
- + Void filling applications that require early strength.
- + To provide early support to machine and structural baseplates.
- + Quick fixing and bedding in applications that require a rapid early strength, such as crash barriers, posts, signposts, manhole covers and rings, kerbs, drains and precast concrete.
- + Repairs to concrete in refrigeration plants and freezer stores at temperatures below -20°C.

MIXING INSTRUCTIONS:

ROCKBOND FASTROCK SUPER ACCELERATED MATERIALS 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). Only mix quantities that can be comfortably placed within 5 to 10 minutes.

Add 4.00 litres of water to the container or mixer.

Pour 25kg FASTROCK SUPER ACCELERATED 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 SUPER ACCELERATED GROUT (RB FRSAG) AND

CONCRETE (RB FRSAC), MIXING INSTRUCTIONS CONTINUED...

ROCKBOND FASTROCK SUPER ACCELERATED CONCRETE powder is mixed with water at 10% water content: equivalent to 2.50 litres of water/25kg bag.

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 and adding the water to give the appropriate consistency correct for the job in hand, not too stiff, not too wet. Do not over water the mix. Mixing by hand is NOT recommended.

APPLICATION PROCEDURE:

Ensure that all surfaces which ROCKBOND FASTROCK SUPER 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.

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.

After the application of ROCKBOND FASTROCK SUPER ACCELERATED MATERIALS, any exposed material 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), or where the material is exposed to abrasion or aggressive mechanical attack, ROCKBOND FASTROCK SUPER ACCELERATED CONCRETE should be used.

For applications which require a non flow material, ROCKBOND FASTROCK SUPER ACCELERATED MORTAR (RB FRSAM), or ROCKBOND FASTROCK SUPER ACCELERATED CONCRETE NON FLOW (RB FRSAC NF) should be used.

TECHNICAL DATA:

ROCKBOND FASTROCK SUPER ACCELERATED GROUT

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

CONSISTENCY: Fluid
CONSISTENCY LIFE: 10 minutes

DENSITY: 2150kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	3 hours	4 hours	1	28	Days
10	25	40	50	70	90	MPa

YIELD: 25kg of powder yields 12.50 litres of Fastrock Super Accelerated Grout
1m³ of Fastrock Super Accelerated Grout requires 2.000 tonnes of powder

ROCKBOND FASTROCK SUPER ACCELERATED GROUT (RB FRSAC) AND

CONCRETE (RB FRSAC), MIXING INSTRUCTIONS CONTINUED...

TECHNICAL DATA CONTINUED...

ROCKBOND FASTROCK SUPER ACCELERATED CONCRETE

TYPICAL DATA at 10% water/powder ratio at 5°C

CONSISTENCY: Flowing
CONSISTENCY LIFE: 10 minutes

DENSITY: 2250kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	3 hours	4 hours	1	28	Days
10	25	40	50	65	85	MPa

YIELD: 25kg of powder yields 11.50 litres of Fastrock Super Accelerated Concrete
1m³ of Fastrock Super Accelerated Concrete requires 2.175 tonnes of powder

HEALTH, SAFETY AND STORAGE:

ROCKBOND FASTROCK SUPER 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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https://rockbond.co.uk/wp-content/uploads/2019/06/PL3_08_1_1_Rockbond_Fastrock_Accelerated_GROUT_FRAG_and_Concrete_FRAC_May_2019.pdf

IMPORTANT NOTE:

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