

ROCKBOND FASTROCK GROUT & CONCRETE

Fast setting, Quick Strength gain and ready to use

DESCRIPTION

ROCKBOND FASTROCK GROUT (RB 3.05) 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 3.06) powder contains a durable aggregate and is applied to sections greater than 60mm deep. ROCKBOND FASTROCK GROUT and ROCKBOND FASTROCK CONCRETE powders are packaged in 25kg durable bags.

SPECIAL PROPERTIES

- Ready and quickly mixed with water, poured and placed.
- Fluid flow consistencies promotes penetration into confined spaces.
- Quick Early Strength: FASTROCK GROUT, 5MPa at 1 hour, 10MPa at 2 hours at 20°C
- High ultimate compressive strength, shrinkage compensated and microsilica enhanced.
- Excellent bond strength and resistance to 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 a rapid gain in early compressive strength.
- Repairs to roadway, carriageway and runway concrete.
- Repairs to factory floors, car parks, loading bays and ramps that require early trafficking.
- Void filling applications that require early strength.
- To provide early support to machine and structural baseplates.
- Fixing in applications that require early strength such as crash barriers, posts, signposts, manhole covers and rings, kerbs, drain and precast concrete.

MIXING INSTRUCTIONS

ROCKBOND FASTROCK GROUT (RB 3.05) and CONCRETE (RB 3.06) powders are mixed with water using a container, a pneumatic or electric drill (1kW) and a ribbon mixer. Use a forced action pan mixer to mix larger amounts of material, or a grout pump with mixer incorporated.

Add 4.00 litres of water to the container or mixer.
Pour 25kg of FASTROCK 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 CONCRETE (RB 3.06) 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 with which the ROCKBOND FASTROCK 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 friable, weak or porous concrete substrates, apply ROCKBOND PRIMER LATEX (RB7.13) 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 material must be cured immediately with ROCKBOND MEMBRANE CURE (RB 7.11) at the rate of 8m²/litre. During adverse curing conditions, repeat the procedure.

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

For applications which require a non-flow material, use ROCKBOND FASTROCK MORTAR (RB 3.09). During winter weather work, or at temperatures below 5°C, ROCKBOND FASTROCK ACCELERATED GROUT (RB 3.07), or ROCKBOND FASTROCK ACCELERATED CONCRETE (RB 3.08) should be used.

TECHNICAL DATA

TYPICAL DATA for **FASTROCK GROUT (RB 3.05)** at 18% water/powder ratio at 20°C

| | |
|-------------------|------------------------|
| CONSISTENCY: | Fluid Grout |
| CONSISTENCY LIFE: | 20 Minutes |
| DENSITY: | 2150 kg/m ³ |

MINIMUM COMPRESSION:

1 hour: 5MPa 2 hours: 10MPa 1 day: 20MPa 7 days: 40MPa 28 days: 60MPa

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

TYPICAL DATA for **FASTROCK CONCRETE (RB 3.06)** at 12%water/powder ratio at 20°C

| | |
|-------------------|------------------------|
| CONSISTENCY: | Flowing Concrete |
| CONSISTENCY LIFE: | 20 Minutes |
| DENSITY: | 2250 kg/m ³ |

MINIMUM COMPRESSION:

1 hour: 5MPa 2 hours: 20MPa 1 day: 30MPa 7 days: 50MPa 28 days: 70MPa

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

HEALTH AND SAFETY

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 have any queries, or require further information, please contact our Technical Sales Team:

CONTACT DETAILS

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