

TECHNICAL DATA SHEET

FASTROCK ACCELERATED 528

High strength concrete designed for bedding applications

DESCRIPTION

Rockbond Fastrock Accelerated R W (RB 3.07) 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 a rapid gain in compressive strength.

SPECIAL PROPERTIES

- Ready and quickly mixed with water, poured and placed.
- Fluid flow consistency promotes penetration into confined spaces.
- Portland cement based, shrinkage compensated and microsilica enhanced.
- Quick early strength: FRAG, 10MPa at 1 hour & 30MPa at 2 hours at 20°C (20MPa in 2 hours at 5°C)
- High ultimate compressive strengths.
- 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 at 0°C to 10°C.
- Quick return to use to pathways, roadways, carriageway, taxiway and runway concrete.
- Repairs to factory floors, car parks, loading bays and ramps that require early trafficking.
- Repairs to concrete in cold stores.
- Void filling applications that require early strength.
- To provide early support to machine and structural base plates.
- 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 Accelerated Grout powder is mixed with water using a container, a pneumatic or electric drill (1kW) and a ribbon mixer. 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 Fast Rock 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.

APPLICATION PROCEDURE

Ensure that all surfaces with which the 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 friable, weak or porous concrete substrates, use 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. 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 5m² 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 Membrane Cure (RB 7.11) at the rate of 8m²/litre. During adverse curing conditions, repeat the procedure.

For applications in high volume/low surface area situations (nominal sections greater than 60 mm), or where the material is exposed to aggressive mechanical attack or abrasion, Fastrock Accelerated Concrete should be used.

TECHNICAL DATA

TYPICAL DATA for FASTROCK ACCELERATED GROUT at 16% water/powder ratio at 5°C

CONSISTENCY:	Fluid grout
CONSISTENCY LIFE:	10 minutes
DENSITY:	2150 kg/m ³
MINIMUM COMPRESSIVE STRENGTH at 20 °C:	
Days: 1 7 28	Hours: 1 2
MPa: 35 50 80	MPa: 10 20

YIELD: 25kg of powder yields 12.5 litres of Fastrock Accelerated Grout. 1m³ of Fastrock Accelerated Grout requires 2.000 tonnes of powder

HEALTH AND SAFETY

Quickbed Concrete 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.

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**