

TECHNICAL DATA SHEET

FASTROCK ACCELERATED CONCRETE

High strength micro concrete for special applications

DESCRIPTION

Rockbond Fastrock Accelerated Concrete (RB 3.08) powder contains a durable 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 product is packaged in 25kg sealed plastic pails.





SPECIAL PROPERTIES

- Ready 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: FRAC, 3MPa at 1 hour & 10MPa at 2 hours at 20°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 Concrete (RB 3.08) powder is mixed with water at 11% water content: 2.75 litres of water/25kg pail. 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. The water ratio can be increased to 16% if required, to produce a pourable mix.

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.

TECHNICAL DATA

TYPICAL DATA for FASTROCK ACCELERATED CONCRETE at 11% water/powder ratio at 20°C

CONSISTENCY:	Fluid grout
CONSISTENCY LIFE:	10 minutes
DENSITY:	2250 kg/m ³

MINIMUM COMPRESSIVE STRENGTH at 20 °C:

Days:	1	7	28	Hours:	1	2
MPa:	25	45	60	MPa:	3	10

YIELD: 25kg of powder yields 11.25 litres of Fastrock Accelerated Concrete. 1m³ of Fastrock Accelerated Concrete requires 2.200 tonnes of powder

HEALTH AND SAFETY

Fastrock 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**