

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS

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ROCKBOND FASTROCK CEMENT AND MORTAR.

DESCRIPTION:

ROCKBOND FASTROCK CEMENT (RB FRCm) is a blend of special cement powders, which when mixed with water, produces a fast setting, quick strength cementitious binder. The cement is ideal for use on site with sand and aggregates to produce non flow, quick strength mortars and concretes for concrete repairs, and bedding in applications when an early return to service is required. ROCKBOND FASTROCK MORTAR (RB FRM) is ROCKBOND FASTROCK CEMENT (RB FRCm) premixed with graded sands and is ready for use. The materials are packaged in 25kg durable bags and have a shelf life of 2 years.

SPECIAL PROPERTIES:

- * Simple and easy to use: just add the cement, sand and aggregate to water, and mix.
- * Produces fast setting and early strength development mortars and concretes.
- * Strong cementitious binder: produces strong bonding and high strength materials.
- * Fastrock cement mortars and concretes are impermeable and durable.
- * The cement mixed with site batched sand and aggregates produce low cost materials.
- * Contains no chlorides, ferrous metal or other deleterious substances.
- * Economical, non flammable, non toxic, user friendly and safe to use.

USES:

- + Quick fixings and connections into concrete, masonry, rock, brick and block.
- + Applications that require a quick strength cement, mortar or concrete.
- + Quick and thin section repairs to defective concrete and masonry.
- + Fast patch repairs to roadways, pathways, floors and steps.
- + Quick bedding in of precast concrete units, manhole rings and covers, posts, kerbs, stones, slabs, bricks and frames.

MIXING INSTRUCTIONS:

ROCKBOND FASTROCK CEMENT (RB FRCm) and MORTAR (RB FRM) powders are mixed with water using a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC), a pneumatic or electric power tool (1kW), and a ROCKBOND STIRRER (RB S). Mix small quantities of cement or mortar with water as and when required.

Pour a quantity of water into the container or mixer.
Slowly sprinkle the powder onto the water while mixing.
Continue to add and mix the powder until the required consistency is obtained.
After all the powder has been added, mix for 30 seconds.
The cement or mortar is now ready for use.

For an accelerated mix: reduce the water/cement ratio. For a retarded mix: increase the water/cement ratio. Normally mix to a slightly wet mortar consistency.

ROCKBOND FASTROCK CEMENT (RB FRCm) AND MORTAR (RB FRM) CONTINUED...

For a quick strength mortar use 1 part cement to 3 parts sand. For a quick strength non flow concrete use 1 part cement, 1 part sand and 2 parts 3 to 6mm aggregate. Use sand and aggregates that are clean and dust free. For rapid high strength, increase the cement content and reduce the water.

APPLICATION PROCEDURE:

For concrete repairs: thoroughly and completely abrade the surface where necessary to produce a sound substrate with a good mechanical key. All traces of contamination must be removed. Brush or blow away all dust and debris.

On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate 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 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 (RB PL) will treat 5m² of concrete surface with 2 coats of latex.

Only mix as much mortar or concrete that can be comfortably placed in 10 minutes. Once in place avoid heavy traffic for 2 hours.

For winter weather work, low temperature applications (below 5°C approximately), or when a rapid early strength gain is required, use ROCKBOND FASTROCK (ACCELERATED) CEMENT (RB FRACm) or ROCKBOND FASTROCK (ACCELERATED) MORTAR (RB FRAM).

TECHNICAL DATA:

ROCKBOND FASTROCK CEMENT (RB FRCm)

TYPICAL DATA at 30% water/powder ratio at 20°C

CONSISTENCY: Good Mortar Consistency
CONSISTENCY LIFE: 15 minutes

DENSITY: 2020kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28	Days
5	10	25	35	50	MPa

YIELD: 25kg of cement powder yields 15.00 litres of Fastrock Cement.
1m³ of Fastrock Cement requires 1.675 tonnes of powder.

ROCKBOND FASTROCK CEMENT (RB FRCm) AND MORTAR (RB FRM),

TECHNICAL DATA CONTINUED...

ROCKBOND FASTROCK MORTAR (RB FRM)

TYPICAL DATA at 15% water/powder ratio at 20°C

CONSISTENCY: Good Mortar Consistency
CONSISTENCY LIFE: 10 minutes

DENSITY: 2200kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1hour	2 hours	1	7	28	Days
5	10	20	45	55	MPa

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

HEALTH AND SAFETY:

ROCKBOND FASTROCK CEMENT (RB FRCm) AND MORTAR (RB FRM) 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.

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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