

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

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Email: info@rockbond.co.uk Website: www.rockbond.co.ukROCKBOND QUICKBED CONCRETEDESCRIPTION:

ROCKBOND QUICKBED CONCRETE (RB QBC) powder contains a blend of fine cement powders, high quality graded crushed rock sands and aggregates and a union of admixtures. The compound, when mixed with water, produces a thixotropic, non slump, non flow, quick strength, high strength concrete, which has been specially designed for bedding in applications. The powder is pre-mixed, ready to use, packaged in 25kg moisture proof durable bags and has a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Portland cement based, shrinkage compensated and microsilica enhanced.
- * Quickly and easily mixed with water, poured and placed.
- * Ideal consistency for bedding in applications: thixotropic, non slumping and non flowing.
- * Quick setting, and with an early strength development: 4MPa at 2 hours at 20°C.
- * High ultimate compressive strength: 60MPa at 28 days at 20°C.
- * Non shrink, anti slip, non crazing, non cracking, non curling and non dusting.
- * Can be used down to 0°C, and placed in sections of up to 75mm.
- * Hard wearing, long lasting and resistant to mechanical attack, impact and abrasion.
- * 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 non flow concrete with an early gain in compressive strength.
- + Bedding in applications that require early strength such as precast concrete units, crash barriers, fence posts, signposts, manhole covers and rings, paving slabs, kerbs, coping stones, drains, frames and bricks.
- + For the quick return to use of paths, floors, roadways and carriageway concrete.
- + Repairs to factory floors, car parks, forecourts, loading bays and ramps that require early trafficking
- + For the quick installation of concrete furniture in areas where damage is caused by vandals.
- + For minimal disruption and delay at low temperatures or during winter weather work.

MIXING INSTRUCTIONS:

ROCKBOND QUICKBED CONCRETE powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), an electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material:

Add 2.50 litres of water to the container or mixer.

Pour 25kg of powder onto the water while mixing.

After all the powder has been added, mix for 30 seconds.

The concrete is now ready for use.

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 to give the appropriate consistency.

ROCKBOND QUICKBED CONCRETE (RB QBC) CONTINUED...

APPLICATION PROCEDURE:

Ensure that all surfaces with which the ROCKBOND QUICKBED CONCRETE comes into contact with are clean and dust free. All traces of contamination must be removed. 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. Pay particular attention to the edges of the repair, and brush the liquid at least 25mm beyond the repair area. Brush out any puddles, and 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.

To maximise the contact of the QUICKBED CONCRETE during the repair of concrete, use a gloved hand to form a CONTACT COAT: rub the concrete completely over and well into the substrate to be repaired. RUB IT IN! 100% contact is 100% bond. Add further quantities of the material and tamper, agitate or vibrate the concrete to ensure complete compaction and to eliminate voids. Bring the level of the material up to the profile of the surrounding concrete.

If appropriate, once the material has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse curing conditions, repeat the procedure.

For applications which require a mortar, or for bedding in applications using thin sections of less than 10mm, ROCKBOND FASTROCK ACCELERATED MORTAR (RB FRAM) should be used.

TECHNICAL DATA:

TYPICAL DATA at 10% water/powder ratio at 20°C

CONSISTENCY: Stiff concrete
CONSISTENCY LIFE: 20 minutes

DENSITY: 2350kg/m³

MINIMUM COMPRESSIVE STRENGTH at 5°C:

1 hour	2 hours	1	7	28	Days
1	3	20	35	50	MPa

MINIMUM COMPRESSIVE STRENGTH at 20°C:

1 hour	2 hours	1	7	28	Days
2	4	25	45	60	MPa

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

ROCKBOND QUICKBED CONCRETE (RB QBC) CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND 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.

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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