

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

Newton's Farm Estate, Wissington, Nayland, Suffolk.CO6 4LX, England

Telephone: 01206 265116 Facsimile: 01206 265117

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

ROCKBOND WORKTOP CONCRETE (RB WTC) powder is a premixed, ready to use, cementitious concrete powder. The compound contains a blend of fine cement powders, acrylic co-polymer resins, graded crushed rock sands and aggregates, fibres and a combination of compatible admixtures. The compound, when mixed with water, produces a light grey, flowing concrete which is applied to various shaped moulds to form concrete worktops, concrete furniture and precast concrete products. The surface of the hardened concrete is strong, tough, hard, durable, waterproof and resistant to chemical attack. The powder is packaged in 25kg moisture proof, durable bags and has a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Available in brilliant white, and also in a range of attractive colours.
- * All the ingredients in the bag, dry mixed, premixed and ready for use.
- * Portland cement based, microsilica enhanced, acrylic polymer resin modified, shrinkage compensated and fibre reinforced.
- * Selected and graded rock sands and aggregates with excellent mechanical properties.
- * Quickly and easily mixed, worked, placed, cast and finished.
- * Anti shrink, non crazing, non cracking, non curling and non dusting.
- * High early and ultimate compressive, flexural and tensile strengths.
- * Hard wearing, long lasting and resistant to impact and abrasion.
- * Non flammable, non toxic, odour free, user friendly and safe to use.
- * High yielding and economical to use.

USES:

- + To cast and form concrete worktops and countertops of various shapes and sizes.
- + To produce precast concrete posts, signposts, kerbs, slabs, steps, rings, bricks and blocks.
- + In the manufacture of precast concrete products, furniture, artefacts and cast sculpture.
- + Concrete repairs to roofs, factory floors, warehouses, ramps, paths and roadways.
- + To cover and protect concrete and other cementitious surfaces from mechanical attack.
- + Bedding in applications.

MIXING INSTRUCTIONS:

ROCKBOND WORKTOP CONCRETE powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC):

Add 3.00 litres of water to the container or mixer.
Pour 25kg of the 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 the required consistency.

ROCKBOND WORKTOP CONCRETE (RB WTC) CONTINUED...

APPLICATION PROCEDURE:

Mix the ROCKBOND WORKTOP CONCRETE powder with water equivalent to 3.0 litres of water per 25kg bag of powder:

1 x 25kg bag covers 1m² of substrate surface at a depth of 12.5mm.

For the casting of concrete worktops: use melamine or plastic moulds. For textured surfaces, use wooden moulds. Pour the concrete slowly into the mould to enable any entrained air to escape. Pour the material into the mould in such a way as not to entrap air between the concrete and the base of the mould. Use a stiff brush to work and make sure the concrete penetrates into the corners and edges of the mould. Tamper, agitate or use a vibrating table to compact the concrete in the mould and to eliminate voids. Bring the level of the concrete up to the appropriate level, close any pores with a steel float, smooth and finish.

For the application of the worktop concrete on concrete bases, and for the repair of concrete surfaces, floors, roofs and roads: careful and proper preparation of the concrete substrate is essential if a successful material is to be placed. All traces of contamination must be removed. The durability of the hardened screed is only as good as the integrity of the base substrate and concrete.

For placement on weak, friable or porous concrete 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 perimeter of the repair area. Let the latex dry out, usually 15 to 20 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.

Use ROCKBOND RESINTOP PRIMER (RB RTP) to seal and protect the concrete from staining and chemical attack by forming an impermeable epoxy resin barrier on the surface of the concrete.

TECHNICAL DATA:

ROCKBOND WORKTOP CONCRETE (RB WTC)

TYPICAL DATA at 12% water/powder ratio at 20°C

CONSISTENCY: Flowing concrete

CONSISTENCY LIFE: 30 minutes

DENSITY: 2200kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
20	45	60	N/mm ²

YIELD: 25kg of powder yields 12.50 litres of WorkTop Concrete
25kg of powder covers 1m² of concrete at a depth of 12.5mm
1m³ of WorkTop Concrete requires 2.000 tonnes of powder

ROCKBOND WORKTOP CONCRETE (RB WTC) CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND WORKTOP 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:

Gilbert Cox BSc,
Technical Director,

Rockbond SCP Ltd.,
Newton's Farm Estate,
Wissington,
Nayland,
Suffolk,
CO6 4LX.
England.

Telephone: 01206 265116
Facsimile: 01206 265117

Email: info@rockbond.co.uk
Website: www.rockbond.co.uk

IMPORTANT NOTE:

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