

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS

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ROCKBOND PRESSURE POINTING MORTARS

DESCRIPTION:

ROCKBOND PRESSURE POINTING MORTAR 40 (RB PPM40) powder is a specially formulated, premixed, ready to use, polymer modified, cementitious mortar powder. The compound contains a unique blend of fine cement powders, quality graded silica sands, waterproofing agents, and a union of admixtures. The powder, when mixed with water, produces a thixotropic, washout resistant, non shrink, light grey pumping mortar which is specially designed for the pressure pointing of bricks and blocks, and for the filling and sealing joints and voids. ROCKBOND PRESSURE POINTING MORTAR 5 (RB PPM5) has a compressive strength of 5MPa, and is used in low strength applications. The powders are packaged in 25kg durable bags and have a shelf life of 2 years.

SPECIAL PROPERTIES:

- * Available in white, and also in a range of attractive colours.
- * Portland cement based, polymer modified, and microsilica enhanced.
- * Quickly and easily mixed, worked, pumped, placed and finished.
- * High build material: thixotropic, cohesive and non-slumping.
- * Stable under pressure: can be pumped or injected into place.
- * Impermeable, dense, waterproof, and resistant to chemical attack.
- * Can be set accelerated, and designed to give compressive strengths of 5MPa to 60MPa.
- * Economical, non flammable, non toxic, user friendly and safe to use.

USES:

- + For pressure and hand pointing of concrete, stone, masonry, bricks and blocks.
- + To place, set and lay bricks and blocks, and for bedding in applications.
- + For pumping, caulking, injecting, filling, and sealing cracks, cavities, voids, gaps and joints.
- + Waterproofing, weatherproofing and damp proofing applications.
- + For use underwater: for the underwater pointing of bricks and blocks, and for void filling.
- + As a mortar to repair cement based materials, concrete, stone and bricks.
- + To render brick and cementitious surfaces to produce a smooth and attractive finish.

MIXING INSTRUCTIONS:

ROCKBOND PRESSURE POINTING MORTAR 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). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 4.50 litres of water to the container or mixer.
Pour 25kg of powder onto the water while mixing.
For batches of 2 or more bags, repeat the procedure.
After all the powder has been added, mix for 30 seconds.
The mortar is now ready for use.

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.

ROCKBOND PRESSURE POINTING MORTARS CONTINUED...

APPLICATION PROCEDURE:

On weak, friable or porous substrates, use the 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.

To point bricks and blocks: rake out all crumbly or weak mortar. Ensure that all surfaces which the mortar comes into contact with are clean and dust free. Use a water spray to washout any debris and to wet the existing mortar to minimise suction.

For pressure pointing applications: use a ROCKBOND GROUT INJECTION GUN 1 litre (RB GIG1000). Mix the powder with water, charge the gun, and inject the material at the back of the cavity or fissure. Withdraw the nozzle while still injecting to minimise the formation of voids. Bring the level of the mortar up to the profile of the surrounding brickwork, and finish with a steel trowel.

To render brick or cementitious surfaces: remove all friable or weak material; apply one coat of the ROCKBOND PRIMER LATEX (RB PL) to the substrate and let dry; apply a second coat of the latex and let dry. Or soak the substrate to reduce suction. Mix the mortar powder with water; place by trowel, steel float or spray.

Once the material is in place and has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse curing conditions, repeat the procedure.

Use ROCKBOND PRESSURE POINTING MORTAR 5 (RB PPM 5) for applications where a low strength material is required.

For winter weather work, or when ambient temperatures are low, or when an early set is required, use ROCKBOND PRESSURE POINTING MORTAR ACCELERATED (RB PPMA).

TECHNICAL DATA:

ROCKBOND PRESSURE POINTING MORTAR 40 (PPM40)

TYPICAL DATA at 18% water/powder ratio at 20°C

CONSISTENCY: Wet mortar consistency
CONSISTENCY LIFE: 30 minutes

DENSITY: 2120kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	25	40	MPa

YIELD: 25kg of powder yields 13.50 litres of Pressure Pointing Mortar 40
1m³ of Pressure Pointing Mortar 40 requires 1.850 tonnes of powder.

ROCKBOND PRESSURE POINTING MORTARS, TECHNICAL DATA CONTINUED...

TECHNICAL DATA:

ROCKBOND PRESSURE POINTING MORTAR 5 (PPM5)

TYPICAL DATA at 18% water/powder ratio at 20°C

CONSISTENCY: Wet mortar consistency
CONSISTENCY LIFE: 30 minutes

DENSITY: 2100kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
1	2	5	MPa

YIELD: 25kg of powder yields 13.50 litres of Pressure Pointing Mortar 5
1m³ of Pressure Pointing Mortar 5 requires 1.850 tonnes of powder

HEALTH AND SAFETY:

ROCKBOND PRESSURE POINTING MORTAR (RB PPM) 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 materials.

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:

ROCKBOND SCP LTD provides the above information in good faith and without warranty. The data represents typical values which can be updated at any time, and this information supersedes previous issues. No liability can be accepted for any damage or loss arising from the use of ROCKBOND SCP LTD literature or its products, because the company has no continuous control on how the products are mixed, placed or cured.

MARCH 2007