

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

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ROCKBOND HYDRAULIC LIME MORTAR**DESCRIPTION:**

ROCKBOND HYDRAULIC LIME MORTAR (RB HLM) powder is a specially formulated, premixed, ready to use, hydraulic lime mortar powder. The compound contains a fine grade of natural hydraulic lime, quality graded sands and a union of compatible admixtures. The powder, when mixed with water, produces a thixotropic, white, low strength, pumping mortar which is specially designed for pressure pointing, and for the filling of joints and voids in brick and stone. The hardened mortar is microporous and compatible with lime mortars, stone and bricks found in old buildings and historic structures. The compound is packaged in 25kg moisture proof, durable sacks and has a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Does not contain Portland cement.
- * Available in white, and also in a range of attractive colours.
- * Quickly and easily mixed, worked, pumped, placed and finished.
- * High build material: thixotropic, cohesive, non-slumping and low shrink.
- * Stable under pressure: can be pumped or injected into place.
- * Microporous: allows brick, masonry and stone structures to breathe and dry out.
- * Flexible: will move in sympathy with changes in temperature, humidity, stress and differential loading.
- * Low strength and forgiving: a compatible pointing and joint fill material for bricks and blocks.
- * Self healing: microcracks and voids are filled and repaired by continuous carbonation.
- * High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + For the 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 the pumping, caulking, injecting and filling of cracks, cavities, voids, gaps and joints.
- + As a compatible mortar to repair lime based materials, mortars, renders and concrete.
- + To render external brick and stone surfaces to produce an aesthetically pleasing finish.
- + To plaster internal brick and stone substrates to produce a smooth and attractive surface.
- + To restore and make good historic buildings, listed buildings, churches, bridges, viaducts and stone structures.

MIXING INSTRUCTIONS:

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

Add 5.50 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 mortar is now ready for use.

ROCKBOND HYDRAULIC LIME MORTAR (HLM),

MIXING INSTRUCTIONS CONTINUED...

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 appropriate consistency.

APPLICATION PROCEDURE:

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. Substrate surfaces without the use of the Primer Latex should be wet.

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 bricks and 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 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.

For winter work: protect the mortar from wet weather and frost by covering the material with wet hessian and polyethylene sheet.

TECHNICAL DATA:

ROCKBOND HYDRAULIC LIME MORTAR (HLM)

TYPICAL DATA at 22% water/powder ratio at 20°C

CONSISTENCY:	Wet mortar consistency
CONSISTENCY LIFE:	30 minutes
DENSITY:	1950kg/m ³
COMPRESSIVE STRENGTH:	5MPa at 90 Days
YIELD:	25kg of powder yields 15.00 litres of Hydraulic Lime Mortar 1m ³ of Hydraulic Lime Mortar requires 1.700 tonnes of powder.

ROCKBOND HYDRAULIC LIME MORTAR (HLM), CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND HYDRAULIC LIME MORTAR 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 materials. 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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