

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

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ROCKBOND EPOXY LIGHTWEIGHT MORTAR**DESCRIPTION:**

ROCKBOND EPOXY LIGHTWEIGHT MORTAR (RB ELWM) is a specially formulated, three part epoxy mortar system, which consists of a base, hardener and a low density filler. When the three components are mixed, a lightweight resin mortar is produced which is high building, non slumping, and easily worked, placed and finished. The material sets quickly to produce a strong bonding, durable mortar which is used to repair vertical and soffit concrete, and to fill large volume voids. The mortar is supplied in 3.5kg/2.5 litre or 14kg/10 litre packs and has a shelf life of 2 years.

SPECIAL PROPERTIES:

- * Pre batched, pre packed, and ready to use.
- * Quickly and easily mixed, worked, placed and finished.
- * Thick sections can be built up on vertical and soffit surfaces in one application.
- * Early strength gain reduces time on site waiting for the material to "go off".
- * Adheres strongly to all construction materials: cement, mortar, concrete, masonry, brick, stone, steel, wood, plastic and glass.
- * Weatherproof, waterproof, impermeable, and resistant to Ultra Violet radiation.
- * Protects concrete against frost attack, carbonation, sulphation and acid gases.
- * Resistant to aqueous solutions, chemicals, acids and oils.
- * Can be pigmented to colour match the surrounding concrete, brick or stone.
- * High yielding and economical to use.

USES:

- + In high build situations for use in one application:
50mm or more on soffit surfaces, 75mm or more on vertical surfaces.
- + Structural repairs to vertical and soffit concrete.
- + Repairs to cementitious materials, concrete, masonry, stone, bricks and blocks.
- + To patch repair and fill cracks, voids, holes and gaps in concrete and steel.
- + Applied as a render to concrete, stone, brick, wood and most construction materials.
- + Whenever a light weight material is required.
- + For use as a large volume void filler.
- + As a joint filler in concrete floors, between slabs, precast concrete and steel.

MIXING INSTRUCTIONS:

ROCKBOND EPOXY LIGHTWEIGHT MORTAR hardener is added to the ROCKBOND EPOXY LIGHTWEIGHT MORTAR base and mixed together using an electric power tool and a ROCKBOND LARGE RESIN STIRRER (RB LRS). When the hardener and base are thoroughly mixed, add and mix the filler component:

Add all the contents of the hardener to the base component.
Thoroughly mix hardener and base together for 2 to 3 minutes.
Add all the low density filler and gently mix until homogeneous.
The epoxy lightweight mortar is now ready for use.

APPLICATION PROCEDURE:

Remove all traces of contamination from bonding surfaces. Heavy scale and loose rust must be removed from metal surfaces. Severely corroded reinforcement should be cut back and replaced. Vacuum clean or blow away all dust and debris. In situations where the steel needs to be passified, or where there is a high degree of chemical attack, apply ROCKBOND STEEL PRIMER (RB SP).

On weak, friable or porous substrates, use the 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 area to be covered. 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, 1 litre of ROCKBOND PRIMER LATEX will treat 5m² of substrate surface with two coats of latex.

When the second coat of the ROCKBOND PRIMER LATEX is dry, mix and apply the Lightweight Mortar. With a gloved hand, rub and spread the mortar completely over and well into the surface to be repaired, or the joint to be filled. Add and compact further quantities of the material, and bring the level of the mortar up to the profile of the surrounding surface. Finish off using a trowel or spatula with a light water spray to produce a smooth surface.

HEALTH: SAFETY AND STORAGE:

Wear goggles, gloves and protective clothing while mixing, handling and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

TECHNICAL DATA:

TYPICAL DATA at FULL CURE at 7 DAYS at 20°C

CONSISTENCY:	Stiff Mortar	COMPRESSIVE STRENGTH:	50MPa
CONSISTENCY LIFE:	30 minutes	DIRECT TENSILE STRENGTH:	25MPa
DENSITY:	1150kg/m ³	FLEXURAL STRENGTH:	35MPa

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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<https://rockbond.co.uk/products/rockbond-epoxy-lightweight-mortar-rb-elwm/>

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.

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