

**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](mailto:info@rockbond.co.uk) Website: [www.rockbond.co.uk](http://www.rockbond.co.uk)ROCKBOND EPOXY MORTARDESCRIPTION:

ROCKBOND EPOXY MORTAR (RB EM) is a specially formulated, three part epoxy resin system which consists of a base resin, hardener and filler. When the hardener is mixed with the base resin and filler, a non flow mortar is produced which cures to produce a quick, strong, fast bonding material for use in concrete repairs, on concrete floors and in areas exposed to chemical attack. The mortar is supplied in 5.2kg/2.5 litre and 20.8kg/10 litre packs and has a shelf life of 1 year.

SPECIAL PROPERTIES:

- \* Pre batched, pre packed and ready to use.
- \* Quickly and easily mixed, worked, placed and finished.
- \* Quick strength development: will resist traffic and loading at an early age.
- \* Bonds fast to cement, concrete, brick, masonry, rock and steel.
- \* Heavy duty and high strength: will resist heavy static, dynamic and cyclic loading.
- \* Resistant to aqueous solutions, corrosive chemicals, acids, oils and organic solvents.

USES:

- + For the repair and protection of reinforced concrete structures.
- + To patch repair cracks, voids, holes and gaps in concrete, stone, masonry and steel.
- + The filling and sealing of voids, and general purpose non flow epoxy mortar applications.
- + High strength structural repairs to concrete.
- + Load bearing applications: under heavy machine baseplates, structural baseplates, bridge bearing seats, crane rail tracks, generators and compressors.
- \* To lay, place, bed in and bond precast concrete, blocks, stone, tiles and engineering bricks.
- \* As a heavy duty floor screed to repair damaged and broken concrete surfaces.
- + To protect concrete in chemically aggressive environments such as chemical works and stores, food and drink processing factories, farms, abattoirs, dairies and breweries.

MIXING INSTRUCTIONS:

The ROCKBOND EPOXY MORTAR HARDENER (RB EMH) is added to and mixed with the ROCKBOND EPOXY MORTAR BASE (RB EMB) in the base container, and the filler is then mixed with the resin using a ROCKBOND LARGE RESIN STIRRER (RB LRS) and an electric power tool:

Add all the contents of the hardener to the base resin.  
Thoroughly mix until homogeneous.  
Add the filler, and mix until homogeneous.  
The epoxy mortar is now ready for use.

APPLICATION PROCEDURE:

All necessary preparatory work must be completed before the mortar is mixed.

Ensure that all surfaces with which the mortar comes into contact are clean and dust free. A strong substrate free of all friable material will enhance a good bond. Vacuum clean or blow away all dust and debris.

## ROCKBOND EPOXY MORTAR (RB EM), APPLICATION PROCEDURE CONTINUED...

On weak or porous surfaces, use ROCKBOND EPOXY BONDING AGENT (RB EBA) to seal and prime the surface: spread the primer completely and evenly over the surface at the rate of approximately 8m<sup>2</sup>/litre on stone and concrete substrates, and 10m<sup>2</sup>/litre on steel surfaces. Make sure the adhesive is applied completely and evenly over the surface to be bonded.

While the bonding agent is wet or tacky, mix and apply the Epoxy Mortar. Spread and compact the mortar completely over and well into the substrate to be filled or repaired. 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 hand trowel or powered float. Mix, place and finish the mortar within 15 to 20 minutes after mixing at 20°C. Do not apply below 5°C or above 25°C.

**1 x 5.2kg/2.5 litre unit covers 0.5m<sup>2</sup> of concrete surface at a depth of 5mm.**

**1 x 20.8kg/10 litre unit covers 2m<sup>2</sup> of concrete surface at a depth of 5mm.**

The mortar will take foot traffic at 15 hours, and light vehicular traffic at 24 hours at 20°C.

### 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:	50N/mm <sup>2</sup>
CONSISTENCY LIFE:	20 minutes	DIRECT TENSILE STRENGTH:	15N/mm <sup>2</sup>
DENSITY:	1900kg/m <sup>3</sup>	FLEXURAL STRENGTH:	14N/mm <sup>2</sup>

YIELD: 1 x 20.2kg pack yields 10 litres of mixed Epoxy Mortar  
1 x 20.2kg pack of Epoxy Mortar covers 2m<sup>2</sup> of concrete at 5mm cover.

### 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](mailto:info@rockbond.co.uk)  
Website: [www.rockbond.co.uk](http://www.rockbond.co.uk)

### 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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