

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

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Email: [info@rockbond.co.uk](mailto:info@rockbond.co.uk) Website: [www.rockbond.co.uk](http://www.rockbond.co.uk)ROCKBOND EPOXY BONDING AGENTDESCRIPTION:

ROCKBOND EPOXY BONDING AGENT (RB EBA) is a specially formulated two part, solvent free, epoxy resin system which consists of a hardener and a base resin which is filler free. When the hardener is mixed with the base component, a free flowing epoxy grout is produced which quickly hardens and to produce a strong bonding material. The compound is used to bond cementitious materials to steel and other construction materials. The resin is supplied in 1kg/1 litre packs and has a shelf life of 1 year.

SPECIAL PROPERTIES:

- \* Pre batched, pre packed and ready to use.
- \* Does not contain phenolic accelerators and is solvent free.
- \* Quickly and easily mixed and applied by brush, broom or roller.
- \* Low viscosity, high workability and free flowing.
- \* Develops a high early adhesive strength.
- \* Can be used at low temperatures down to 0°C
- \* Adheres strongly to most construction materials: cement, mortar, concrete, brick, stone, masonry, steel, wood, plastic and glass.
- \* Can be used to bond wet or cured concrete to steel and other building materials.
- \* Forms a strong permanent bond to concrete, steel, wood and most construction materials.
- \* Impermeable and waterproof: resistant to aqueous solutions, acids, oils and organic solvents.
- \* Water "soluble" - materials and equipment can be washed and cleaned with water.

USES:

- + To bond wet concrete to cast concrete, steel and other construction materials.
- + To produce a high strength, permanent, waterproof bond to concrete and steel.
- + To bond precast concrete, stone, bricks, blocks and wood to concrete and steel.
- + For use as a general purpose adhesive during building and construction.
- + To form a quick bond between construction materials at low temperatures.
- + To fill, seal and protect cracked concrete and porous cementitious surfaces.
- + To install wearing surfaces to weak and friable concrete floors, paths and roadways.
- + To waterproof and protect concrete against frost, aqueous solutions and chemical attack.

MIXING INSTRUCTIONS:

The Hardener and Base components of the ROCKBOND EPOXY BONDING AGENT are mixed together using a suitable container and stirrer.

Add all the contents of the Hardener to the Base.  
Thoroughly mix for until homogeneous.  
The epoxy bonding agent is now ready for use.

Alternatively, small amounts of the adhesive can be prepared by adding 1 part of the hardener to 1.5 parts by weight of the base, and mixing until homogeneous.

## ROCKBOND EPOXY BONDING AGENT (RB EBA) CONTINUED...

### APPLICATION PROCEDURE:

Remove all traces of contamination from bonding surfaces. Heavy scale and loose rust must be removed from metal surfaces. If appropriate, abrade the substrate to produce a rough texture.

Mix the hardener with the base, and use a brush or soft broom to spread the adhesive at the rate of approximately 4m<sup>2</sup>/litre on concrete and stone surfaces, and 5m<sup>2</sup>/litre on steel. If applicable, apply the epoxy bonding agent to both sets of bonding surfaces.

**The spread rate for a one coat application to concrete is 4m<sup>2</sup>/litre.**

**The spread rate for a one coat application to steel is 5m<sup>2</sup>/litre.**

However, the spread rate will depend on the texture and the porosity of the bonding surface to be treated. Make sure the adhesive is applied completely and evenly over the surface to be bonded.

At about one to two hours, depending on conditions, while the bonding agent is still tacky, bring the two bonding surfaces into contact. If possible, hold or clamp the surfaces together. Ensure good and continuous contact between bonding elements until the epoxy has set.

For heavy duty bonding, or when the substrate is particularly porous, rough or weak, apply a second coat to the first coat when the first coat is touch dry, which is normally about 3 hours at 20°C.

### HEALTH, SAFETY AND STORAGE:

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

### TECHNICAL DATA:

#### TYPICAL DATA at 20°C

CONSISTENCY:	Free flowing.	DENSITY:	1120kg/m <sup>3</sup> .
CONSISTENCY LIFE:	30 minutes.	COMPRESSIVE STRENGTH:	50MPa.
TOUCH DRY:	3 hours approximately.	TENSILE STRENGTH:	25MPa.

### 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.

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