

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

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ROCKBOND ANTI-CARBONATION COATINGDESCRIPTION:

ROCKBOND ANTI-CARBONATION COATING (RB ACC) is a single pack, ready to use coating system. The material is water based, and contains a blend of pure acrylic resin polymers. The coating is extremely adhesive, flexible and waterproof, and can be applied by brush, roller or spray. The material is a white, anti-carbonation, flexible, protective, coating to concrete. It also provides a protective cover to cementitious materials, steel, stone, brick, wood and other construction materials. The coating is supplied in 6.65kg/5 litre packs and has a shelf life of 5 years.

SPECIAL PROPERTIES:

- \* 200 micron dry film of ROCKBOND ANTI-CARBONATION COATING is equivalent to 745mm of good quality concrete!
- \* Normally, no need to prime.
- \* Can be used on all construction materials: concrete, mortar, render, masonry, stone, steel, wood, plastic and glass.
- \* Thixotropic: will not slump or drip.
- \* Highly adhesive, flexible and durable.
- \* Resistant to ultraviolet light and colour fast.
- \* Microporous, damp proof, waterproof and weatherproof.
- \* Resistant to chemical attack and acid gases.
- \* Resistant to microbial growth, algae, fungi and mould.
- \* Supplied in white, or available in a range of attractive colours.
- \* Water "soluble" - equipment is quickly and easily washed and cleaned with water.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + To prevent carbonation and sulphation in concrete and cementitious materials.
- + Waterproofing applications to concrete structures, walls and roofs.
- + Waterproofing applications to brick, blocks, stone, rock and masonry.
- + Protective paint for concrete, steel, stone, brick, mortar and render.
- + To protect structures from the weather and weathering.
- + To protect reinforced concrete against freeze-thaw cycles, de-icing salts, aqueous solutions, acid gases and corrosion.
- + For elastic requirements over cracked surfaces and moving substrates.
- + To produce smooth, coloured and aesthetically pleasing finishes.
- + To produce uniform, coloured finishes to areas of concrete containing concrete repairs.

MIXING INSTRUCTIONS:

ROCKBOND ANTI-CARBONATION COATING is a single pack system, requires no mixing and is ready to use.

## ROCKBOND ANTI-CARBONATION COATING (RB ACC) CONTINUED...

### APPLICATION PROCEDURE:

Good surface preparation is essential part of any successful coating application. All substrates should be mechanically sound and thoroughly clean.

On heavily contaminated surfaces, any dust, dirt, oil, grease and organic growth must be mechanically removed until a sound, clean substrate is obtained. Blow or brush away any dust or debris. Use ROCKBOND FUNGICIDAL WASH (RB FW) to treat any fungi or mould.

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 5m<sup>2</sup> of concrete surface with a two coat application.

Use ROCKBOND FASTROCK ACCELERATED MORTAR (RB FRAM) to repair and smooth any necessary areas.

Apply ROCKBOND ANTI-CARBONATION COATING by soft brush or broom, roller or spray. Work the material well onto and into the substrate to minimise voids at the bondline and enhance the contact of the coating. (100% contact is 100% bond).

Brush or spray at the rate of 5m<sup>2</sup>/litre to give a cover of approximately 200 microns. (Approximate dry film thickness will be 100 microns). However, the rate will vary depending on the surface porosity and texture of the substrate: a greater quantity of coating will be required on surfaces that are porous and rough. Apply a second coat after the first coat is dry, which is normally 6 hours.

**The spread rate for a two coat application is 2.5m<sup>2</sup>/litre.**

Do not apply at temperatures below 5°C or when the relative humidity is greater than 75%.

### TECHNICAL DATA:

SPREAD RATE/COAT:	Typically 5m <sup>2</sup> /litre
DRY FILM THICKNESS/COAT:	100 microns approximately
DIFFUSION COEFFICIENT: for carbon dioxide at 200 microns cover	1.00 x 10 <sup>-11</sup> m <sup>2</sup> /s
DIFFUSION COEFFICIENT: for water vapour at 320 microns cover	3.25 x 10 <sup>-8</sup> m <sup>2</sup> /s
EQUIVALENT AIR THICKNESS (R): for carbon dioxide at 200 microns cover	298m - equivalent to 745mm thickness of concrete
EQUIVALENT AIR THICKNESS (Sd): for water vapour at 320 microns cover	248mm

ROCKBOND ANTI-CARBONATION COATING (RB ACC) CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND ANTI-CARBONATION COATING is non toxic and safe to use. However, if splashes enter the eyes, the coating must be immediately washed out with plenty of clean running water. Continue the treatment for several minutes with the eyelids kept open. If the coating is ingested, give the patient plenty of water to drink. Wear goggles, a mask and protective clothing while handling, spraying and applying the material. 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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