

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF  
SPECIAL CONCRETE PRODUCTS

NEWTONS FARM ESTATE, WISSINGTON, NAYLAND, SUFFOLK, CO6 4LX

Telephone: 01206 265116 Fax: 01206 265117

Website and e-mail at: [www.rockbond.co.uk](http://www.rockbond.co.uk)

## ROCKBOND ADMIX 301 POWDER

### ACCELERATING ADMIXTURE FOR NON FLOW CEMENTITIOUS MATERIALS

#### DESCRIPTION:

ROCKBOND ADMIX 301 (RB A301) powder is a blend of chloride free admixtures which has been specially designed to accelerate the early strength development of Portland based cementitious materials. The admixture can be dry mixed with Portland cement, or added to the mix water of cementitious renders, mortars and non flow concretes. The admixture rapidly accelerates the early strength development of non flow cementitious materials at 20°C, and produces an early strength development at low temperatures. The powder is ready to use, is packaged in 25kg durable bags and has a shelf life of 2 years.

#### SPECIAL PROPERTIES:

- \* Can be packaged in water soluble bags for convenient handling.
- \* HAC and chloride free: contains no deleterious substances.
- \* The finished product will not readily flow, slump, or suffer plastic settlement.
- \* Will produce high early strength, non flow materials for spray applications.
- \* Will accelerate the early strength development of cement based materials at low temperatures.
- \* Combines with, immobilises and neutralises chloride or sulphate ions.
- \* Economical, non flammable, non toxic, user friendly and safe to use.

#### USES:

- + To produce renders, mortars and concrete with high early strengths at 20°C.
- + To accelerate the early strength of cementitious materials at low temperatures.
- + For use in high build applications, and to minimise slumping and bleeding.
- + To speed up application time and finishing during winter weather work.
- + For use in cementitious materials to repair concrete in tidal situations, marine defences and offshore environments.
- + For addition to site batched mortars for the laying and pointing of bricks and blocks at low temperatures, or during winter weather work.
- + For use in reinforced concrete where corrosion of steel is a problem.
- + To produce non flow sulphate resistant concrete.

#### MIXING INSTRUCTIONS:

ROCKBOND ADMIX 301 (RB A301) is added to and dispersed in the mix water. The dosage rate is normally 5% by weight of cement contained in the mix: 5kg ADMIX 301 per 100kg of cement.

However, the dosage rate will depend on the cement type, the water/cement ratio, the volume to surface area ratio, the ambient temperature and the required rate of early strength gain. Trials should be carried out to determine the required dosage. If necessary, use ROCKBOND ADMIX 201 (RB A201) powder to produce a flowing material, reduce the water/cement ratio and enhance the strength of the mix.

## ROCKBOND ADMIX 301 (RB A301) CONTINUED...

As a guide: for a 500kg/m<sup>3</sup> cement mix at a water/cement ratio of 0.35, to achieve a strength of 5MPa at 2 hours, 20MPa at 4 hours and 30MPa at 6 hours, use:

5% A301 by weight of cement at 20°C, 10% A301 at 15°C, 15% A301 at 10°C, 20% A301 at 5°C and below.

### APPLICATION PROCEDURE:

For concrete repairs and flooring applications: prepare the concrete to produce a clean and strong surface. On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate 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. 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. Normally, 1 litre of ROCKBOND PRIMER LATEX will treat 5m<sup>2</sup> of concrete surface with 2 coats of latex.

Add ROCKBOND ADMIX 301 (RB A301) to the mix water, add and mix the mortar or concrete ingredients. Apply to concrete ensuring good contact at the bondline, and build up the material to the required level. Let the mortar or concrete gel for a few minutes, smooth and finish.

Once the material is in place and has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m<sup>2</sup>/litre. During adverse curing conditions, repeat the procedure.

### HEALTH AND SAFETY:

ROCKBOND ADMIX 301 (RB A301) 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 material.

### 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.,  
NEWTONS FARM ESTATE,  
WISSINGTON, NAYLAND,  
SUFFOLK, CO6 4LX  
England.

Telephone: 01206 265116  
Facsimile: 01206 265117

Website and e-mail at:  
[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.

DECEMBER 2005