

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

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ROCKBOND ADMIX 1701 POWDER**AIR DETRAINING ADMIXTURE FOR MORTAR AND NON FLOW CONCRETES****DESCRIPTION:**

ROCKBOND ADMIX 1701 (RB A1701) powder is blend of air detrainning and defoaming admixtures that have been specially designed for use with Portland cement mortars and non flow concretes. The admixture, when added to water and mixed with cementitious materials, reduces the air content and porosity of the mix. Furthermore, the compound increases the density and impermeability of cement and concrete which, in turn, produces stronger cementitious materials that are resistant to the passage of water and chemicals. The powder is ready to use, supplied to order, packaged in moisture proof, durable bags and has a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Can be packaged in water soluble bags for convenient handling.
- * Readily dispersed and incorporated into cement and concrete mixes.
- * Reduces plastic slumping, settlement, sinkage, shrinkage and cracking.
- * Increases the density and strength of cementitious mixes.
- * Produces weatherproof, waterproof, impermeable and durable concrete.
- * Reduces the rate of carbonation in concrete, and attack by acid gases.
- * Improved resistance to sulphate, chloride and chemical attack.
- * High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.
- * Long lasting shelf life of 5 years or more when bags are stored in a cool, dry and dark place

USES:

- + To produce high quality, high strength site batched mortars and concrete that are dense and free of air.
- + For use in mortars and renders that have low cement contents and entrain air.
- + To maximise the ultimate compressive, tensile and mechanical strength of concrete.
- + To increase the wear resistance of concrete floors and highway structures.
- + For use in carriageway and highway concrete and concrete structures.
- + To produce non porous, impermeable concrete resistant to chemical attack.
- + For use in marine concrete, chemical and fertiliser plants, food factories and dairies.
- + For use in underwater concrete and underwater concrete repairs.
- + To eliminate surface defects in precast products such as "honeycombing" and "pin pricks".

MIXING INSTRUCTIONS:

ROCKBOND ADMIX 1701 cementitious materials are mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Use a ROCKBOND FORCED ACTION PAN MIXER 120 litres (RB FAPM120) to mix larger amounts of material.

ROCKBOND ADMIX 1701 powder is added to and dispersed in the mix water. The dosage rate is normally 0.5% by weight of cement contained in the mix: 0.5kg of ROCKBOND ADMIX 1701 powder per 100kg of cement.

ROCKBOND ADMIX 1701 (RB A1701) POWDER.

MIXING INSTRUCTIONS CONTINUED...

Carry out and finalise any preparation necessary before mixing and applying the mortar or concrete.

When applying materials to weak, friable or porous substrates, use the ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate, strengthen and seal the surface.

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 5m² of concrete surface with a two coat application.

Start the mixer. Add the appropriate amount of the admixture to the mix water, and let the powder disperse. Add the remaining ingredients of the mortar or concrete, and mix until homogeneous.

For the treatment of ready mixed concrete: ROCKBOND ADMIX 1701 powder can be added to the mix water in the ready mix truck at the plant via the aggregate belt, or the admixture can be added to the concrete at the back of the truck when the vehicle arrives on site. Mix the concrete for a few minutes before discharging.

Once the material is in place and has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m² /litre. During adverse curing conditions, repeat the procedure.

Use ROCKBOND ADMIX 1801 (RB A1801) powder for a flowing, air detrainning admixture to produce fluid grouts and flowing concretes that are low in air.

HEALTH, SAFETY AND STORAGE:

ROCKBOND ADMIX 1701 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. 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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https://rockbond.co.uk/wp-content/uploads/2020/10/PL06_Rockbond_Admix_1701_1_Non_Flow_Air_Detraining_Admixture_January_2020.pdf

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.

FEBRUARY 2026