

**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 ADMIX 402 POWDERACCELERATING ADMIXTURE FOR CEMENTITIOUS GROUTS AND FLOWING CONCRETESDESCRIPTION:

ROCKBOND ADMIX 402 (RB A402) powder is a ready to use blend of water reducing and accelerating agents that has been specially designed for use with Portland cementitious materials. The admixture will produce grouts and flowing concretes that develop a rapid gain in early compressive strength at 20°C. The powder will also accelerate cementitious materials at low temperatures, or during the winter months when the weather is cold. The compound is supplied to order, packaged in moisture proof, durable bags and has a shelf life of 2 years.

SPECIAL PROPERTIES:

- \* The complete accelerating admixture for flowing cementitious materials.
- \* Can be packaged in water soluble bags for convenient handling.
- \* Does not contain HAC, nitrates, chlorides or other deleterious substances.
- \* Quickly and easily mixed and dispersed in water.
- \* Contains water reducing and accelerating agents compatible with Portland cement.
- \* Very efficient: can be used at low dosages.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + To produce quick strength, quick drying grouts and concretes from site batched materials.
- + To accelerate ready mixed, site batched or precast concrete.
- + To accelerate the early strength development of grouts, concretes and screeds at low temperatures, or during winter weather work.
- + For use in concrete for the quick installation of street furniture, crash barriers, manhole covers, posts, kerbs, drains and slabs.
- + For use in concrete to quickly repair floors, car parks, pathways, loading bays, roadways, taxi ways, motorways and runways when time is very short.
- + For marine defences, tidal situations, inshore and offshore environments when time is short.

MIXING INSTRUCTIONS:

ROCKBOND ADMIX 402 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 (RB FAPM) to mix larger amounts of material.

ROCKBOND ADMIX 402 powder is added to and dispersed in the mix water. The dosage rate at low ambient temperatures is normally 10% by weight of cement contained in the mix: 10kg of the ROCKBOND ADMIX 402 powder per 100kg of cement. However, the dosage rate will depend on the cement type, the water/cement ratio, the amount of concrete mixed, the dimensions of the pour, the ambient temperature and the required rate of early strength development. Trials should be carried out to determine the required dosage.

## ROCKBOND ADMIX 402 (RB A402) POWDER, MIXING INSTRUCTIONS CONTINUED...

If necessary, use the ROCKBOND ADMIX 201 (RB A201) powder to reduce the water content of the mix, enhance the acceleration, and increase the ultimate strength of the grout, concrete or screed.

As a guide: for a mix containing 500kg cement/m<sup>3</sup> concrete 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% A402 by weight of cement at 20°C, 10% A402 at 15°C, 15% A402 at 10°C, 20% A402 at 5°C and below.

For the treatment of ready mixed concrete: the ready mix truck can arrive on site and the admixture added to the ingredients at the back of the truck. The concrete is mixed for a few minutes before discharge. ROCKBOND ADMIX 402 accelerated concrete will not “flash set” in the truck.

### APPLICATION PROCEDURE:

Carry out and finalise any preparation necessary before mixing and applying the grout or concrete. Start the mixer. Add the appropriate amount of the ROCKBOND ADMIX 402 to the mix water, and let the powder disperse. Add the remaining ingredients of the mix, and mix until homogeneous.

### HEALTH, SAFETY AND STORAGE:

ROCKBOND ADMIX 402 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.

### TECHNICAL DATA:

TYPICAL DATA FOR HIGH STRENGTH CONCRETE at 32% water/cement ratio at 5°C

CEMENT CONTENT:	500kg/m <sup>3</sup>			
DOSAGE RATE OF A402:	15%			
COMPRESSIVE STRENGTH:				
2 hours	4 hours	6 hours	1 day	28 days
5MPa	20MPa	30MPa	40MPa	75MPa

### 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, <a href="mailto:info@rockbond.co.uk">Email: info@rockbond.co.uk</a> <a href="http://www.rockbond.co.uk">Website: www.rockbond.co.uk</a>
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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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