

# ROCKBOND SCP LTD

## FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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### ROCKBOND UNDERWATER ADMIX 2201 POWDER

#### UNDERWATER ADMIXTURE FOR CEMENTITIOUS GROUTS AND FLOWING CONCRETES

#### DESCRIPTION:

ROCKBOND UNDERWATER ADMIX 2201 (RB UWA2201) powder is a blend of admixtures which has been specially formulated to mix and produce flowing, high strength underwater grouts and concretes. The powder contains a system of anti washout agents, water reducing agents, stability aids to prevent segregation under pressure and a compressive strength enhancer. The powder is ready to use, supplied to order, packaged in moisture proof durable bags and has a shelf life of five years.

#### SPECIAL PROPERTIES:

- \* The complete admixture for underwater flowing materials.
- \* Can be packaged in water soluble bags for convenient handling.
- \* Minimises "fog" or dispersion when poured and placed underwater.
- \* Extremely cohesive, stable, and will not breakdown, segregate or bleed.
- \* Readily pumpable, and stable under pressure.
- \* Will not retard at higher dosages.
- \* Contains no deleterious substances harmful to aquatic life.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

#### USES:

- + To produce quality underwater grouts and flowing concretes from site batched materials.
- + For use in ready mixed concrete for flowing underwater applications.
- + To produce cementitious materials that are washout resistant when brought into contact with water or running water.
- + To produce cohesive, mobile, and free flowing underwater materials that are self levelling and self compacting.
- + To produce high strength concrete to prevent abrasion from mechanical attack and scour.
- + To produce chemically resistant, durable marine grouts and concretes.
- + Freshwater and seawater concrete repair and protection.
- + For use in concrete for underwater void filling of seawalls, piles, harbours, quays and jetties.
- + For use in flowing cementitious materials for concrete repair and protection, and for the consolidation of water retaining structures, dams, pillars and piers.
- + Materials for waterlogged foundations, anchorages, pilings, conduits, pipes and sewers.

#### MIXING INSTRUCTIONS:

ROCKBOND UNDERWATER ADMIX 2201 cementitious grouts and concretes are mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), an 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 UNDERWATER ADMIX 2201 powder is added to and dispersed in the mix water. The dosage rate is normally 1% by weight of total cement contained in the mix: 1kg of ROCKBOND UNDERWATER ADMIX 2201 powder per 100kg of cement.

## ROCKBOND UNDERWATER ADMIX 2201 POWDER CONTINUED...

### APPLICATION PROCEDURE:

Carry out and finalise any necessary preparations before mixing and applying the grout or concrete. Ensure that all surfaces with which the grout or concrete comes into contact with are clean and free of marine growth. Use a high pressure water jet to produce a good and strong substrate on which to apply the material.

For the production of site batched flowing cementitious materials; 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 grout or concrete, and mix until homogeneous.

For the treatment of ready mixed concrete at the plant: add the mix water to the back of the truck; add the aggregate dispensed from the aggregate belt with the appropriate amount of admixture and mix; add the remaining concrete ingredients and mix until homogeneous. If required, add further amounts of water on site to obtain the required consistency for the job.

For treatment of ready mixed concrete on site: raise the level of the concrete at the back of the truck by reversing the rotation of the drum; spread the admixture evenly over the surface of the concrete; and mix for a few minutes before discharging.

For the application of high strength mortars and non flow concretes, use ROCKBOND UNDERWATER ADMIX 2101 (RB UWA2101) for non flowing cementitious materials.

For the application of mortars and non flow concretes that require an early strength development, especially at low temperatures, use ROCKBOND UNDERWATER ADMIX 2301 (RB UWA2301) for non flowing, accelerated cementitious materials.

For the application of high strength grouts and flowing concretes when a quick early strength is required, or when ambient temperatures are low, use ROCKBOND UNDERWATER ADMIX 2401 (RB UWA2401) for flowing, accelerated cementitious materials.

### HEALTH, SAFETY AND STORAGE:

ROCKBOND UNDERWATER ADMIX 2201 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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### 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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