

**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 Website: www.rockbond.co.uk**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, MIXING INSTRUCTIONS CONTINUED...

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.

APPLICATION PROCEDURE:

Carry out and finalise any preparation necessary 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.

Add the appropriate amount of UWA2201 admixture to the mix water and let the powder disperse. Mix the remaining ingredients pour and place. Tremie the material into place if possible, and endeavour to produce a slow continuous flow.

For the treatment of ready mixed concrete: the admixture can be added to the aggregate belt feeding the truck at the plant, or for on site application, the level of the concrete at the back of the truck is raised to the point of discharge and the admixture is spread evenly over the surface of the concrete. Mix the concrete 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:

Gilbert Cox BSc,
Technical Director,
Rockbond SCP Ltd.,
Newton's Farm Estate,
Wissington, Nayland,
Suffolk, CO6 4LX, England.

Telephone: 01206 265116,
Facsimile: 01206 265117,
Email: info@rockbond.co.uk
Website: www.rockbond.co.uk

IMPORTANT NOTE:

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