

# ROCKBOND SCP LTD

## FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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### ROCKBOND UNDERWATER SUPER ACCELERATED MORTAR

#### DESCRIPTION:

ROCKBOND UNDERWATER SUPER ACCELERATED MORTAR (RB UWSAM) powder is a blend of special cement powders, high quality graded sands, water soluble polymers and an unique combination of accelerating agents. The powder, when mixed with water, produces a rapid early strength mortar for underwater void filling, concrete repairs at freezing temperatures, and to stop the flow of water through cementitious surfaces, masonry, brick and stone. The compound is ready to use, packaged in 25kg moisture proof durable bags and has a shelf life of 5 years.

#### SPECIAL PROPERTIES:

- \* Portland cement based, shrinkage compensated, polymer modified and microsilica enhanced.
- \* The mortar produces a rapid gain in high early strength.
- \* Strong, fast and permanent bond to stone, brick, masonry, steel and concrete.
- \* Can be used above and below the waterline.
- \* Will not disperse, wash-out or break up underwater.
- \* Impermeable, waterproof, weatherproof, damp proof, durable and permanent.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use in underwater environments.

#### USES:

- + For the fast filling and sealing of voids and quick repairs to concrete at freezing temperatures.
- + To instantly stop and plug the flow of running water or grout through brick or concrete.
- + The repair of sea walls in tidal and splash zones where time is limited.
- + Caulking material for gaps and joints, and for sealing shutters.
- + In situations where a quick, early strength gain is required.
- + Underwater, running water and wet applications.
- + Designed for use during cold weather, low temperature applications and freezing conditions.

#### MIXING INSTRUCTIONS:

ROCKBOND UNDERWATER SUPER ACCELERATED MORTAR powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), an electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Only mix quantities of the ROCKBOND SUPER ACCELERATED MORTAR that can be successfully applied within a minute or so after mixing:

Add a small amount of water to a container.  
Pour the powder onto the water while mixing.  
Continue to add the powder to give a stiff mortar consistency.  
The Underwater Super Accelerated Mortar is now ready for use.  
Mixing by hand is not recommended.

Water acts as a retarder, for an accelerated mix reduce the water content. For a retarded mix: increase the water to produce a wet mortar consistency.

## ROCKBOND UNDERWATER SUPER ACCELERATED MORTAR CONTINUED...

### APPLICATION PROCEDURE:

All necessary preparatory work must be completed before the mortar is mixed.

Mix the powder with water in sufficient quantities to plug cracks or voids all in one go. A quick and efficient mixing action is recommended. Apply at the right consistency: stiff but not yet set. With the use of a gloved hand, force the compound into the void to be plugged. If necessary, hold the material in place until the compound develops sufficient strength to stop the flow. Alternatively, while the mortar begins to set, use a hammer to hit and compact the material into place.

After filling and sealing leaking joints, cracks and channels, build up the mortar to the profile of the surrounding concrete and form a bridge of the mortar over the joint. Use the mortar as a skim coat to produce a smooth and attractive finish.

### HEALTH, SAFETY AND STORAGE:

ROCKBOND UNDERWATER SUPER ACCELERATED MORTAR 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 materials. Store in a cool, dry, dark place.

### TECHNICAL DATA:

TYPICAL DATA at 18% water/powder ratio at 20°C

CONSISTENCY:	Good mortar consistency.
CONSISTENCY LIFE:	Seconds
DENSITY:	2080kg/m <sup>3</sup>

#### MINIMUM COMPRESSIVE STRENGTH:

1 hour	2 hours	1	7	28 Days
5	10	20	35	50 MPa

YIELD: 1 x 25kg of powder yields 13.00 litres of underwater SA Mortar

### 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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