

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

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**ROCKBOND UNDERWATER SCOUR PACK****DESCRIPTION:**

ROCKBOND UNDERWATER SCOUR PACK (RB UWSP) powder is a premixed, dry mixed cementitious concrete powder specially formulated for underwater non flow void filling applications. The compound contains a blend of cement powders, high quality graded crushed rock sands and aggregates and a union of admixtures. The powder is packed in hessian bags contained in a waterproof outer woven polypropylene sack. When the outer sack is removed and the hessian bag placed underwater, water penetrates the concrete powder and hydrates the cements to produce a non flow, fully compacted, abrasion resistant in situ concrete. The pack is used to fill underwater voids and cavities in concrete, brick and stone and to support and protect structures from scour, erosion and mechanical attack. The packs contain 25kg of powder, are waterproof and durable and have a shelf life of 5 years.

**SPECIAL PROPERTIES:**

- \* The concrete powder requires no mixing and is ready to place and use.
- \* The compound incorporates a blend of admixtures which promote the penetration of water, through the powder, the hydration of the cements and the early hardening of the concrete.
- \* The packs provide instant non shrink concrete which are fully compacted and self bonding.
- \* Will not "fog", disperse or breakup when placed and positioned underwater.
- \* The concrete develops a full cure, and high compressive, tensile and mechanical strengths.
- \* The hardened concrete is waterproof, impermeable and resistant to chemical attack.
- \* Can be used underwater, and above water with the addition of water in the outer sack.
- \* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

**USES:**

- + General underwater non flow, void filling and underpinning applications.
- + Marine and fresh water underwater concrete scour repair and protection.
- + For use in hostile locations such as areas of fast moving water, tides and splash zones.
- + For the repair of seawalls, harbours, quays, jetties, culverts, ramps and slipways.
- + Fortification and repair of river and sea defences above and below the waterline.
- + Repair and consolidation of water retaining structures, dams, pillars and bridge columns.
- + To erect concrete walls, dams and structures to prevent flooding of property and places.
- + For use when a quick, simple, convenient method of scour repair and protection is required.
- + In applications where shutters, concrete mixing equipment, pumps and pipes cannot be used.

**MIXING INSTRUCTIONS:**

ROCKBOND UNDERWATER SCOUR PACK powder in hessian bags requires no mixing. Simply remove the outer plastic sack and submerge the hessian bag underwater, or unstitch the outer sack, fill the sack with water to the level of the powder in the bag, remove any air, tie and place.

**HEALTH, SAFETY AND STORAGE:**

ROCKBOND UNDERWATER SCOUR PACK powder is non toxic and safe to use. However, use the same precautions as with handling any cementitious product. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

## ROCKBOND UNDERWATER SCOUR PACK, PRODUCT LITERATURE CONTINUED...

### APPLICATION PROCEDURE:

All necessary preparatory work must be completed before the scour pack is placed. Ensure that all surfaces with which the concrete comes into contact with are clean and free of contamination. Use a water jet to produce a good and strong substrate on which to place and position the packs.

Calculate the number of packs required to fill the void, or to provide sufficient cover to protect the structure: one 25kg bag of underwater scour pack, 0.550m long x 0.380m wide x 75mm high, occupies a volume of 0.015m<sup>3</sup>.

Unstitch or cut the top of the outer woven polypropylene sack, pass the sack down to the applicator close the repair area, take out the inner hessian bag and position the bag in the underwater void to be filled and let the concrete hydrate.

Endeavour to make sure that there is good contact and bond between adjacent bags. Fold and interlock the bags whenever possible. If appropriate, use Rockbond Underwater Mortar (RB UWM) to lay and bond the bags together. For the construction of scour pack walls, stack and use reinforcing steel to stake the bags together. The concrete will be fully set within one to two hours.

### TECHNICAL DATA:

#### ROCKBOND UNDERWATER SCOUR PACK (RB UWSP)

#### TYPICAL DATA at saturation point at 20°C

DENSITY: 2200kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
5	15	25	N/mm <sup>2</sup>

YIELD: 25kg of pack fill produces 0.015m<sup>3</sup> of hardened concrete.

### 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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