

ROCKBOND REPAIR CONCRETE

Pumpable repair concrete for deep voids

DESCRIPTION

ROCKBOND REPAIR CONCRETE (RB 1.06) is specially formulated, pre-mixed cementitious concrete powder. The powder contains a blend of fine cements, high quality graded sands and aggregates, and a set of admixtures. The material readily mixes with water to produce a fluid flow concrete which hardens to give a high strength product. The concrete powder is packaged in 25kg durable bags, is ready to use and has a shelf life of 2 years.

SPECIAL PROPERTIES

- Quickly and easily mixed, pumped and placed.
- Fluid flow consistency promotes penetration into confined spaces, and onto damaged concrete substrates.
- The concrete will not segregate or bleed, and is readily pumpable.
- Excellent mechanical strengths and good bond strengths.
- Resistant to static, dynamic and vibrational stresses.
- Shrinkage compensated, low alkali cements, equivalent Na_2O below 3kg/m^3 .
- Incorporates unreactive graded sands safe from ASF (alkali Silica Reaction) attack.
- Contains no chlorides, ferrous metal or other deleterious substances.
- Economical, non toxic, user friendly and safe to use.

USES

- Concrete repairs to reinforced concrete structures.
- Load bearing and structural applications.
- Repair and protection of concrete in marine environments.
- Motorway bridges, viaducts and carriageway repairs.
- To repair concrete floors, car parks, pathways, loading bays, roadways and motorways.

MIXING INSTRUCTIONS

ROCKBOND REPAIR CONCRETE (RB 1.06) is mixed with water using a suitable container, a pneumatic or electric power tool (1 kW), and a ribbon mixer. Larger amounts of material may be mixed using a forced action paddle mixer.

Add 3.0 litres of water to the container or mixer.
Pour 25kg of the concrete powder onto the water while mixing.
For batches of 2 or more bags, repeat the procedure.
After all the powder has been added, mix for 30 seconds.
The concrete is now ready for use.

Smaller quantities of the concrete can be prepared by adding the concrete powder to a quantity of water in stages and mixing to give the required consistency.

All preparatory work must be complete before the concrete is mixed.

Ensure that all surfaces with which the concrete comes into contact are clean and dust-free. A strong concrete substrate free of all friable material will enhance a good bond.

Shutters must be impermeable to the passage of water, and strong enough to contain and support the concrete. Sufficient hydrostatic head must be given to the material to enable it to flow completely through the void to be filled. Make sure that enough concrete is mixed and available so that the operation can be performed in one continuous pour.

After concreting has been completed, or when the shutters are removed, any exposed concrete must be cured immediately with ROCKBOND MEMBRANE CURE (RB 7.11) at the rate of 8m²/litre. During adverse weather conditions, such as high temperatures and drying winds, repeat the procedure after the first application is dry.

HEALTH AND SAFETY

ROCKBOND SPECIAL CONCRETE PRODUCTS are 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.

TECHNICAL DATA

TYPICAL DATA at 12% water/powder ratio at 20°C.

CONSISTENCY:				Fluid concrete
CONSISTENCY LIFE:				30 minutes.
DENSITY:				2280/kg/m ³
MINIMUM COMPRESSIVE STRENGTH:				
1	7	28		Days
20	35	60		MPa
YIELD:	25kg yields 11.25 litres of fluid concrete.			
	1 m ³ of fluid concrete requires 2.225 tonnes of powder.			

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales:

FREEPHONE: 0800 76 25 26

EMAIL: sales@rockbond.co.nz

ROCKBOND

Special concrete products

P.O. Box 38-526, Wellington Mail Centre 5045, New Zealand

Telephone +64 4 568 5401

Fax +64 4 568 4580

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