

TECHNICAL DATA SHEET

REPAIR MORTAR

Early strength cementitious Repair Mortar

DESCRIPTION

Rockbond Repair Mortar (RB 1.01) is a pre-mixed, ready to use, cementitious mortar powder. The material contains a unique blend of cement powders, graded sands and admixtures. The powder also contains a polypropylene fibre, an ultra-fine dispersible co-polymer and corrosion inhibitors. The mortar powder, when mixed with water, produces a non-shrink, acrylic modified mortar, which hardens to produce an exceptionally strong bonding with very low permeability.





SPECIAL PROPERTIES

- Marine-Grade Concrete - Class C
- Has an excellent high-build characteristic.
- Designed to British Standards and formulated for the repair and protection of reinforced concrete.
- Portland cement based, modified and microsilica enhanced.
- Early strength gain reduces time on site waiting for the material to "go off".
- Incorporates unreactive graded sands safe from ASR attack.
- Designed to be dynamically compatible with good structural concrete.
- Contains no chlorides, ferrous metal or other deleterious substances.
- Up to 60mm in a single application.

USES

- For the repair of reinforced concrete, concrete floors, carparks, roads and other cementitious surfaces.
- To spray concrete to retard or arrest carbonation, sulphation or ASR.
- For the protection of reinforcing steel in concrete exposed to high levels of chloride.
- For the repair and protection of marine concrete
- Structural Repair in Water Reservoirs.
- For protective coatings to concrete in chemically aggressive environments.
- Overhead application methods.
- Applied as a render to concrete, stone or brick.

MIXING INSTRUCTIONS

Rockbond Repair Mortar (RB1.01) is mixed with water using a suitable container, pneumatic or electric power drill and, and a ribbon mixer.

- Add 4 litres of water to the container or mixer
- Pour 25 kg of powder onto the water while mixing
- After all the powder has been added, mix for 1 minute
- The Mortar is now ready for use.

Alternatively, small amounts of the material can be prepared by slowly adding the powder to a quantity of water and mixing to required consistency.

APPLICATION PROCEDURE

Break out all spalled, loose and contaminated concrete until good, sound concrete is exposed. Thoroughly and completely abrade the concrete to produce a sound substrate with a good mechanical key.

Remove all corrosion and contamination from the surface of the steel. Severely corroded reinforcement should be cut back and replaced.

Immediately before the application of the repair material, thoroughly wash and soak the concrete substrate. Remove any standing water and keep the substrate free of contamination. In situations where there is a high degree of chemical attack apply Rockbond Primer for Steel (RB 1.00) to the steel reinforcing.

If required, apply Rockbond Latex Concentrate (RB 7.15) to consolidate and seal the concrete substrate. Brush the latex completely and evenly over the concrete. Work the latex well into the substrate where necessary. Let the latex dry out, usually 15 to 30 minutes depending on conditions. For use as a primer: apply a second coat of latex to the first coat. To maximise the contact of the repair system to the concrete, and to reduce peeling and voids at the bond line, use a gloved had to form a contact coat: rub the latex/mortar mixture completely over and well into the concrete substrate to be repaired. Compact and build up the mortar to the profile of the surrounding concrete, and produce a cover of not less than 20mm in front of the steel reinforcing. Spray Latex Concentrate (RB 7.15) onto the surface of the mortar. Use a steel float to close and seal the pores, and produce an attractive finish.

PACKAGING

The product is packaged in 25kg bags and has a shelf life of 2 years.

HEALTH AND SAFETY

RB 1.01 Repair Mortar is non toxic and safe to use. However, use the same precautions as with any cementitious products, wear goggles, protective clothing and a dust mask while mixing and applying the material.

TECHNICAL DATA

Water/ Powder Ratio	16%	
Consistency/Life	Good Mortar/30 Minutes	
Density	1950kg/M3	
Minimum Compressive Strength	Days	MPa
	1	22
	7	48
	28	70
Yield per 25kg	13 Litres	
Amount of powder required to produce 1m ³	1.925 tonnes	

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team: +64 4 568 5401