

TECHNICAL DATA SHEET

SUPER STRENGTH GROUT

Ultra High Strength Grout for Demanding Applications

DESCRIPTION

Rockbond Super Strength Grout (RB 1.10) is a specially formulated, pre-mixed, ready to use, cementitious grout powder. The material is a blend of fine cements, high quality, finely graded sands and a combination of innovative admixtures. The compound readily mixes with water to produce a non-shrink, mobile grout which hardens to give a very high strength long-life product. Super Strength Grout is packaged in 25kg moisture proof durable bags and has a shelf life of 5 years.





SPECIAL PROPERTIES

- Portland cement based, microsilica enhanced and shrinkage compensated.
- Quickly and easily mixed with water, pumped/poured and placed.
- Self-compacting, self-smoothing, self-levelling, and will not segregate, bleed or dust.
- Mobile consistency: promotes penetration into confined spaces, voids, cracked surfaces, and damaged concrete substrates.
- High strength, strong bonding, and resistant to impact and abrasion.
- Impermeable and dense, and will resist chemical attack.
- High yielding, economical, non-flammable, non-toxic, odour free, user friendly and safe to use.

USES

- Precision grouting of thin sections, narrow gaps and low clearances of 10mm or less.
- Static load bearing applications: under heavy machine baseplates, structural baseplates, bridge bearing seats, wind turbines, crane rail tracks.
- Dynamic and cyclic load bearing applications which require a high flow, high strength grout or concrete.
- Anchoring systems, holding down assemblies, anchor bolts and starter bars.
- To provide high strength contact between closely spaced structural elements.
- To protect steel cables, ducts, bars, bolts and rods against corrosion.
- Military installations, strong rooms, and high security safe protection.

MIXING INSTRUCTIONS

Rockbond Super Strength Grout powder is mixed with water using a stirrer, a pneumatic/electric drill, and a mixing pail. Use a hopper mixer to mix larger amounts of material.

- Add 2.75lts (110MPa) / 3.25lts (100MPa) water to the container or mixer.
- Pour 25kg of the Super Strength Grout powder on the water while mixing.
- After all the powder has been added, mix for 2.5 minutes.
- The grout now is 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 the required consistency.

APPLICATION PROCEDURE

Ensure that all surfaces are clean and dust free. All traces of contamination must be removed. A strong concrete substrate free of all friable material will enhance a good bond.

On weak, friable or porous substrates, use Rockbond Primer Latex (RB 7.13) to penetrate, consolidate, strengthen and seal the surface. With a brush or a soft broom, brush the latex completely and evenly over the surface. Work the latex well into the substrate. Pay particular attention to the edges of the repair and brush the liquid at least 25mm beyond the repair area. Brush out any puddles, and let the latex dry out, usually 15 to 30 minutes depending on conditions.

To prime the substrate and to enhance the bond, apply a second coat of the latex to the first coat. Normally, 1 litre of the Rockbond Primer Latex will treat 5m² of concrete surface with a two-coat application. Substrate surfaces without the use of the Primer Latex should be wet.

Shutters must be impermeable to the passage of water, and strong enough to contain and support the grout. Use Rockbond Membrane Cure (RB 7.11) to seal and waterproof porous shutters.

Sufficient hydrostatic head must be given to the material to enable it to flow completely through the void to be filled. Make sure that sufficient grout is mixed and available so that the operation can be performed in one continuous pour.

After the grouting has been completed, or when the shutters are removed, any exposed grout must be immediately cured with Rockbond Membrane Cure (RB 7.11) at a rate of 8m²/litre. During adverse weather conditions, such as high temperatures and drying winds, repeat the procedure after the first coat is dry.

HEALTH AND SAFETY

Rockbond Super Strength Grout 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.

TECHNICAL DATA

Water/ Powder Ratio	11%	13%	
Consistency	Pourable Grout	Pumpable Grout	
Consistency Life	30 Minutes	30 Minutes	
Density	2480kg/M3		
Minimum Compressive Strength @ 20°C	Days	MPa	MPa
	1	45	30
	7	90	80
	28	110	100
Yield per 25kg:	11 Litres	11.5 Litres	
1m3 requires 2.275 tonnes of powder			

TECHNICAL INFORMATION

Due to the many variables with site grout, Rockbond recommended site specific testing for any application that require a final strength that is close to what specified in TDS. Should you have any queries, or require further information, please contact our Technical Sales Team: +64 4 568 5401