

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS

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ROCKBOND REPAIR GROUT

DESCRIPTION:

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

SPECIAL PROPERTIES:

- * Designed to the Department of Transport Specification for Highway Works.
- * Portland cement based, microsilica enhanced and shrinkage compensated.
- * Quickly and easily mixed with water.
- * Fluid flow consistency promotes penetration into confined spaces, cracked surfaces, and damaged concrete substrates.
- * The grout will not segregate or bleed, and is readily pumpable.
- * Excellent bond strength, and good mechanical strengths.
- * Formulated using low alkali cements; equivalent sodium oxide content below 3.0kg/m³
- * Incorporates unreactive graded sands safe from ASR attack.
- * Economical, non flammable, non toxic, user friendly and safe to use.

USES:

- + For the repair and protection of reinforced concrete structures.
- + For the filling and sealing of voids, and general purpose grouting.
- + Load bearing applications: under heavy machine baseplates, structural baseplates, bridge bearing seats, crane rail tracks, generators and compressors.
- + Holding down assemblies, anchor bolts and starter bars.

MIXING INSTRUCTIONS:

ROCKBOND REPAIR GROUT (RB RG) powder is mixed with water using a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC) container, a pneumatic or electric power tool (1kW), and a ROCKBOND STIRRER (RB S). Mix larger amounts of material by using a ROCKBOND FORCED ACTION PAN MIXER.

Add 4.00 litres of water to the container or mixer.
Pour 25kg of 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 grout 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 the required consistency.

ROCKBOND REPAIR GROUT (RB RG) CONTINUED...

APPLICATION PROCEDURE:

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

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

On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate 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 perimeter of the repair area. Let the latex dry out, usually 15 to 20 minutes depending on conditions.

If the substrate requires a primer, or to enhance the bond, apply a second coat of latex to the first coat. Normally, 1 litre of ROCKBOND PRIMER LATEX (RB PL) will treat 5m² of concrete surface with 2 coats of latex.

Shutters must be impermeable to the passage of water, and strong enough to contain and support the grout. Use ROCKBOND CURE (RB C) 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.

Beware! The grout can be too fluid for a particular application at 4.00 litres water/25kg bag. If so, reduce the water content to 3.50 litres of water/25kg bag.

ROCKBOND REPAIR GROUT (RB RG) can be applied to sections of 75mm. For the grouting of greater sections, ROCKBOND REPAIR CONCRETE (RB RC) should be used.

After the grouting has been completed, or when the shutters are removed, any exposed grout must be immediately cured with ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse weather conditions, such as high temperatures and drying winds, repeat the procedure after the first coat is dry.

TECHNICAL DATA:

TYPICAL DATA at 16% water/powder ratio at 20°C

CONSISTENCY:	Fluid grout
CONSISTENCY LIFE:	30 minutes
DENSITY:	2150kg/m ³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
25	40	60	MPa

YIELD: 25kg of powder yields 13.00 litres of Repair Grout
1m³ of fluid Repair Grout requires 1.900 tonnes of powder.

ROCKBOND REPAIR GROUT (RB RG) CONTINUED...

HEALTH AND SAFETY:

ROCKBOND REPAIR GROUT (RB RG) 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 material.

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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