

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS

Newton's Farm Estate, Wissington, Nayland, Suffolk, C06 4LX, England

Telephone: 01206 265116 Fax: 01206 265117

Website and e-mail at: www.rockbond.co.uk

ROCKBOND HIGH DENSITY (2500) GROUT

DESCRIPTION:

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G) powder is a specially designed, pre-mixed, ready to use, cementitious grout powder. The compound contains a blend of fine cements, sands, quality graded heavy aggregates, and a set of admixtures. When the powder is mixed with water, a free flowing, self compacting, high density, high strength, non-shrink grout is produced, which will not segregate or bleed. ROCKBOND HIGH DENSITY (3200) GROUT (RB HD3200G) has a minimum density of 3200kg/m³. The powders are packaged in 25kg durable bags and have a shelf life of 2 years.

SPECIAL PROPERTIES:

- * Quickly and easily mixed with water, poured and placed.
- * Contains a unique system of wetting, dispersing and stabilising agents.
- * No segregation or bleeding at the recommended water content.
- * The grout is high flow, and is readily pumpable.
- * The grout is non-shrink.
- * Can be formulated and supplied to give densities of between 2250 and 4000kg/m³.
- * Contains no chlorides, ferrous metal or other deleterious substances.
- * Economical, non flammable, non toxic, user friendly and safe to use.

USES:

- + High density and high strength applications.
- + Radiation shielding and absorption.
- + Barrier to microwave, x-ray and other harmful radiation.
- + For use in hospital x-ray rooms.
- + Electronic shielding to computer rooms.
- + Military installations.
- + High security safe protection.
- + Ballast for boats.
- + To protect cement and concrete that are exposed to a high degree of thermal attack, impact and abrasion.

MIXING INSTRUCTIONS:

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G) powder is mixed with water using a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC), a pneumatic or electric power tool (1kW), and a ROCKBOND STIRRER (RB S). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 3.50 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.

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G),

MIXING INSTRUCTIONS CONTINUED...

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 HIGH DENSITY (3200) GROUT powder is mixed with water at 9% water content: 2.25 litres of water/25kg bag.

APPLICATION PROCEDURE:

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

Thoroughly and completely abrade the surface where necessary to produce a sound substrate with a good mechanical key. All traces of contamination must be removed. Vacuum clean or blow away all dust and debris.

On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) 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. 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

For the filling of voids, sufficient hydrostatic head must be given to the material to enable it to flow completely through the cavity to be filled. Ensure that sufficient material is available to complete the operation in one continuous pour.

Once the material is in place and has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse curing conditions, repeat the procedure.

TECHNICAL DATA:

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G)

TYPICAL DATA at 14% water/powder ratio at 20°C

CONSISTENCY:	Flowing grout		
CONSISTENCY LIFE:	30 minutes		
DENSITY:	2500kg/m ³		
MINIMUM COMPRESSIVE STRENGTH:			
1	7	28	Days
20	45	65	MPa

YIELD: 25kg of grout powder yields 10.00 litres of High Density 2500 Grout
1m³ High Density 2500 Grout requires 2.500 tonnes of grout powder

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G).

TECHNICAL DATA CONTINUED...

ROCKBOND HIGH DENSITY (3200) GROUT (RB HD3200G)

TYPICAL DATA at 9% water/powder ratio at 20°C

CONSISTENCY: Flowing grout
CONSISTENCY LIFE: 30 minutes

DENSITY: 3200kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
25	50	70	MPa

YIELD: 25kg of grout powder yields 8.00 litres of High Density 3200 Grout
1m³ High Density 3200 Grout requires 3.125 tonnes of grout powder

HEALTH AND SAFETY:

ROCKBOND HIGH DENSITY (2500) GROUT (RB HD2500G) and ROCKBOND HIGH DENSITY (3200) GROUT (RB HD3200G) powders 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.

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:

Gilbert Cox BSc,
Technical Director,

Rockbond SCP Ltd.,
Newtons Farm Estate,
Wissington, Nayland,
Suffolk, CO6 4LX, England.

Telephone: 01206 265116,
Facsimile: 01206 265117,
Website and e-mail at:
www.rockbond.co.uk

IMPORTANT NOTE:

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