ROCKBOND SCP LTD

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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ROCKBOND HIGH DENSITY (2500) AND HIGH DENSITY (3200) GROUTS

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 sands and a set of admixtures. When the powder is mixed with water, a free flowing, self compacting, low air, high density, high strength, anti-shrink grout is produced which will not segregate or bleed at the recommended water content. ROCKBOND HIGH DENSITY (3200) GROUT (RB HD3200G) has a minimum density of 3200kg/m³. The powders are packaged in 25kg moisture proof, durable bags and have a shelf life of 5 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 grouts are high flowing, and are readily pumpable.
* The grouts are anti-shrink in both their plastic and set states.
* Can be formulated and supplied to give densities of between 2250 and 6000kg/m³.
* The grouts contain no chlorides, high alumina cements or other deleterious substances.
* High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.
* Long lasting shelf life of 5 years or more when bags are stored in a cool, dry and dark place

USES:

+ Flowing 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 and vault 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 powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW) and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). 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 two or more bags, repeat the procedure.
After all the powder has been added, mix for 30 seconds.
The grout is now ready for use.

Registered Office: Newton's Farm Estate, Wissington, Nayland, Suffolk, CO6 4LX
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MIXING INSTRUCTIONS CONTINUED...

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

ROCKBOND HIGH DENSITY (3200) GROUT powder is mixed with water at 10% water content: 2.50 litres of water/25kg bag of powder.

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. 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.

Shutters must be impermeable to the passage of water, and strong enough to contain and support the grout. Use ROCKBOND CURE (RB C) to make porous shutters moisture proof, and for use as a shutter release agent.

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 20ºC

CONSISTENCY:	Flowing grout
CONSISTENCY LIFE:	30 minutes
MINIMUM SET DENSITY:	2500kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	40	60	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) AND HIGH DENSITY (3200) GROUTS,

TECHNICAL DATA CONTINUED...

ROCKBOND HIGH DENSITY (3200) GROUT (RB HD3200G)

TYPICAL DATA at 10% water/powder ratio at 20ºC

CONSISTENCY:	Flowing grout
CONSISTENCY LIFE:	30 minutes
DENSITY:	3200kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
12	50	65	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, SAFETY AND STORAGE:

ROCKBOND HIGH DENSITY GROUT 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. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

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:

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