

**FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS**

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Email: info@rockbond.co.uk Website: www.rockbond.co.ukROCKBOND LIGHTWEIGHT 1200 AND LIGHTWEIGHT 1800 GROUTSDESCRIPTION:

ROCKBOND LIGHTWEIGHT (1200) GROUT (LW1200G) powder is a premixed, low density, cementitious grout powder. The compound consists of a blend of cement powders, shrinkage compensating agents, graded lightweight sand and aggregates and a combination of compatible admixtures. The powder, when mixed with water, produces a lightweight, free flowing grout, which is easily mixed, pumped and placed. The grout is specially designed to be low in weight, and to penetrate and fill small and large volume voids that require a low density material. ROCKBOND LIGHTWEIGHT (1800) GROUT (LW1800G) has a set density of 1800kg/m³. The powders are ready to use, packaged in 25kg moisture proof, durable bags and have a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Quickly and easily mixed with water.
- * Can be designed and supplied to produce set densities from 750kg/m³ to 1800kg/m³.
- * Portland cement based, shrinkage compensated, microsilica enhanced.
- * The grout will not segregate or bleed, is readily pumpable and self compacting.
- * Excellent insulator: a poor conductor of heat and sound.
- * Resistant to fire, will protect steel against fire, and will not give off toxic gases.
- * Contains no chlorides, HAC or deleterious substances.
- * High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + Whenever a low weight, high flow material is required.
- + For use as a large, lightweight volume void filler.
- + Compatible repairs to lightweight cementitious materials, concrete, bricks and blocks.
- + To fill areas that require a low heat material.
- + To protect steel and concrete structures from fire and heat.
- + To thermally insulate buildings and walls on the inside or outside.
- + As an insulating infill around pipes and ducts.
- + For lightweight mezzanine floors, cavity walls, voids and spaces.
- + To form and manufacture low density, precast concrete products and lightweight artefacts.
- + To acoustically insulate rooms or areas to reduce noise and sound.

MIXING INSTRUCTIONS:

ROCKBOND LIGHTWEIGHT (1200) GROUT powder is mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), an 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 the material. The grout powder should be slowly and gently mixed with water.

Add 9.00 litres of water to the container or mixer.
Pour 25kg of the grout powder onto the water while mixing.
After all the powder has been added, mix for 30 seconds.
The grout is now ready for use.

ROCKBOND LIGHTWEIGHT (1200) GROUT AND LIGHTWEIGH (1800) GROUT,

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 give the required consistency.

ROCKBOND LIGHTWEIGHT (1800) GROUT powder is mixed with water at 24% water content: 6.0 litres of water/25kg bag of powder.

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

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

TECHNICAL DATA:

ROCKBOND LIGHTWEIGHT (1200) GROUT

TYPICAL DATA at 36% water/powder ratio at 20°C

CONSISTENCY:	Good grout		
CONSISTENCY LIFE:	1 hour		
DENSITY:	1200kg/m ³		
COMPRESSIVE STRENGTH:			
1	7	28	Days
5	10	15	MPa

YIELD: 25kg of powder yields 29.50 litres of Lightweight (1200) Grout.
1m³ of Lightweight (1200) Grout requires 0.850 tonnes of grout powder.

ROCKBOND LIGHTWEIGHT (1200) GROUT AND LIGHTWEIGHT (1800) GROUT.

TECHNICAL DATA CONTINUED...

ROCKBOND LIGHTWEIGHT (1800) GROUT

TYPICAL DATA at 24% water/powder ratio at 20°C

CONSISTENCY: Good grout
CONSISTENCY LIFE: 1 hour

DENSITY: 1800kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	25	50	MPa

YIELD: 25kg of powder yields 17.50 litres of good grout.
1m³ of good grout requires 1.425 tonnes of grout powder.

HEALTH, SAFETY AND STORAGE:

ROCKBOND LIGHTWEIGHT (1200) AND LIGHTWEIGHT (1800) 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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