

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

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Email: [info@rockbond.co.uk](mailto:info@rockbond.co.uk) Website: [www.rockbond.co.uk](http://www.rockbond.co.uk)ROCKBOND LIGHTWEIGHT (1800) GROUTDESCRIPTION:

ROCKBOND LIGHTWEIGHT (1800) GROUT (LW1800G) powder is a premixed, ready to use, low density grout powder. The compound consists of a blend of cement powders, shrinkage compensating agents, graded lightweight 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 large volume voids that require a low density material. The grout powder is packed in 25kg moisture proof, durable bags and has a shelf life of 2 years.

SPECIAL PROPERTIES:

- \* Premixed and ready to use.
- \* Quickly and easily mixed with water.
- \* Can be designed and supplied to produce a density of between 750 to 1800kg/m<sup>3</sup>.
- \* Portland cement based, shrinkage compensated, microsilica enhanced.
- \* The grout will not segregate or bleed, is readily pumpable and self compacting.
- \* Excellent insulator, and a poor conductor of heat and sound.
- \* Resistant to fire, non flammable and will not give off toxic gases.
- \* Contains no chlorides, high alumina cement or deleterious substances.
- \* High yielding and economical to use.
- \* 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 the installation of lightweight concrete structures.
- + Compatible repairs to lightweight cementitious materials, concrete, bricks and blocks.
- + For use as a large, lightweight volume void filler.
- + To form and manufacture low density, precast concrete products and lightweight artefacts.
- + 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.
- + To minimise condensation on walls and ceilings.
- + To acoustically insulate rooms or areas to reduce noise and sound.

MIXING INSTRUCTIONS:

ROCKBOND LIGHTWEIGHT (1800) GROUT powder is mixed with water using a 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. The grout powder should be slowly and gently mixed with water.

ROCKBOND LIGHTWEIGHT (1800) GROUT, MIXING INSTRUCTIONS CONTINUED...

Add 6.00 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 the powder to a quantity of water and mixing to the required consistency.

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.

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 the ROCKBOND PRIMER LATEX will treat 5m<sup>2</sup> 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 enough 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 10m<sup>2</sup>/litre. During adverse weather conditions, such as high temperatures or drying winds, repeat the procedure after the first coat is dry.

TECHNICAL DATA:

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

CONSISTENCY: Good grout  
CONSISTENCY LIFE: 1 hour  
DENSITY: 1800kg/m<sup>3</sup>

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
10	25	50	MPa

YIELD: 25kg of powder yields 17.50 litres of good grout.  
1m<sup>3</sup> of good grout requires 1.425 tonnes of grout powder.

ROCKBOND LIGHTWEIGHT (1800) GROUT (RB LW1800G) CONTINUED...

HEALTH, SAFETY AND STORAGE:

ROCKBOND LIGHTWEIGHT (1800) GROUT 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. 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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