

ROCKBOND SCP LTD

FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

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ROCKBOND LIGHTWEIGHT SCREEDS

DESCRIPTION:

ROCKBOND LIGHTWEIGHT SCREED SEMI FLOWING (RB LWS SF) powders are premixed, low density, ready to use, cementitious screed powders. The compounds consist of blends of cement powders, shrinkage compensating agents, graded lightweight sands and a combination of compatible admixtures. The powders, when mixed with water, produce lightweight, semi flowing screeds, which are easily mixed, pumped and placed. The screeds are used as lightweight, low density, low strength materials to fill large volume voids, for lightweight floors and for low density trench fill. ROCKBOND LIGHTWEIGHT (1100) SCREED SF (RB LW1100S SF) has a set density of 1100kg/m³, and the ROCKBOND LIGHTWEIGHT (1250) SCREED SF (RB LW1250S SF) has a set density of 1250kg/m³. The powders are packaged in 10kg moisture proof, durable bags and have a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Quickly and easily mixed with water, pumped, sprayed, placed and finished.
- * Portland cement based, shrinkage compensated, microsilica enhanced.
- * Lightweight: can be designed and supplied with set densities from 750kg/m³ to 1800kg/m³.
- * Semi flowing, self compacting, self smoothing and will not readily segregate or bleed.
- * Excellent insulator: a poor conductor of heat and sound.
- * Resistant to fire: will protect steel against fire and heat, and will not burn or give off toxic gases.
- * Contains no chlorides or deleterious substances.
- * Very high yielding and economical to use.
- * Non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + Whenever a non flowing, semi flowing, low density, low strength material is required.
- + For the installation of lightweight floors and lightweight floor toppings.
- + To fill large volume voids with a lightweight material.
- + For use as a non flowing, semi flowing low density, low strength trench fill.
- + For the casting and installation of lightweight concrete structures.
- + 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.
- + For use as an insulating infill around pipes and ducts.
- + For lightweight mezzanine floors, cavity walls, roofs and spaces.
- + To minimise condensation on walls and ceilings.
- + To acoustically insulate rooms or areas to reduce noise and sound.

MIXING INSTRUCTIONS:

ROCKBOND LIGHTWEIGHT SCREED SF powders are 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 screed powders should be mixed slowly, gently and continuously with water until fully wet.

ROCKBOND LIGHTWEIGHT SCREEDS SF (RB LWS SF), MIXING INSTRUCTIONS CONTINUED...

Add 7.0 litres of water to the container or mixer.

Pour 10kg of the ROCKBOND LIGHTWEIGHT (1100) SCREED SF powder onto the water.

After all the powder has been added, gently mix until homogeneous.

The screed is ready for use when the powder is fully wet and wetted out

For the ROCKBOND LIGHTWEIGHT (1250) SCREED SF, use 7.5 litres of water per 10kg bag.

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 appropriate consistency, not too stiff, not too wet. Do not over water the mix. Mixing by hand is NOT recommended.

APPLICATION PROCEDURE:

All necessary preparatory work must be completed before the screed is mixed. Ensure that all surfaces with which the screed 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. Substrate surfaces without the use of the Primer Latex should be wet.

Shutters must be treated with a release agent, must be impermeable to the passage of water and strong enough to contain and support the screed. Sufficient hydrostatic head must be given to the material to enable it to flow completely through the void to be filled. Make sure sufficient screed is mixed and available so that the operation can be performed in one continuous pour. If necessary, a manual grout mixer and pump should be used to place the material.

When placement has been completed, or when the shutters are removed, any exposed screed 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. Do not let the screed dry out.

TECHNICAL DATA:

TYPICAL DATA at for LIGHTWEIGHT (1100) SCREED NF at 70% water/powder ratio at 20°C

CONSISTENCY: Semi flowing mortar
CONSISTENCY LIFE: 60 minutes

SET DENSITY: 1100kg/m³

COMPRESSIVE STRENGTH:

1	7	28	Days
1	2	5	MPa

YIELD: 10kg of powder yields 14.2 litres of Lightweight (1100) NF Screed.

1m³ of Lightweight (1100) Screed NF requires 0.710 tonnes of screed powder.

ROCKBOND LIGHTWEIGHT SCREED NF (LWS SF), TECHNICAL DATA CONTINUED...

TYPICAL DATA at for LIGHTWEIGHT (1250) SCREED NF at 75% water/powder ratio at 20°C

CONSISTENCY: Non flow mortar
CONSISTENCY LIFE: 30 minutes

SET DENSITY: 1250kg/m³

COMPRESSIVE STRENGTH:

1	7	28	Days
2	5	10	MPa

YIELD: 10kg of powder yields 11.4 litres of Lightweight (1250) SF Screed.
1m³ of Lightweight (1250) Screed SF requires 0.880 tonnes of screed powder.

HEALTH, SAFETY AND STORAGE:

ROCKBOND LIGHTWEIGHT SCREED NF 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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