

# ROCK BOND SBR

Water Resistant, S.B.R Bonding Emulsion and Mortar Additive

**PRODUCT DESCRIPTION** Rock Bond SBR is a modified styrene butadiene emulsion. Due to its polymeric action, mortars containing Rock Bond SBR have superior adhesion, good compressive strengths and considerably improved flexural and tensile strengths. In addition Rock Bond SBR mortars have greatly reduced water permeability, improved resistance to chemicals and to abrasion; are Non-Toxic and non-corrosive.

**USES** Rock Bond SBR may be used in applications such as:

- ☐ High strength floor screeds.
- ☐ Repair mortar for patching and filling.
- ☐ For filling and patching mortars that require thin layer finishing.
- ☐ For tile adhesive systems.

For producing floor screeds with enhanced freedom from ‘dusting’, but with improved flexibility and resistance to cracking.

As a bonding agent for renderings, for wear resistant floor toppings in water treatment plants, sewage systems, effluent plants etc.

- ☐ For bonding mortar between old and new concrete.
- ☐ WFBS Listed (Listing number 8905507). Suitable for use in cement mortars in contact with drinking water.
- ☐ U.S.D.A. Approved.
- ☐ Bond Strength (ASTM-C-882).

**ADVANTAGES** Rock Bond SBR is simply added to the mixing water to provide the following beneficial properties:

- ☐ Extremely good adhesion.
- ☐ Reduced shrinkage.
- ☐ Greater elasticity.
- ☐ Excellent water resistance.
- ☐ Increased abrasion resistance.
- ☐ Improved chemical resistance.
- ☐ Non-toxic.

N.B. Rock Bond SBR does not re-emulsify, even in high alkaline conditions.

**TECHNICAL DATA**

<b>Colour</b>	white
<b>Density</b>	1.01 ± 0.02 kg/l
<b>Packaging</b>	5 and 20 kg pails 200 kg drums Bulk Tanks packing available upon request.
<b>Storage</b>	Store free from heat and frost in sealed containers.
<b>Shelf life</b>	12 months from date of production if stored properly in original unopened packing.

**APPLICATION**  
**Surface Preparation** The substrate must be sound, clean and free from oils, grease or surface contaminants. Remove any loose material and laitance using a scrubbing machine or mechanical abrasion. If base is porous moisten well until uniformly saturated, but leave no puddles of water.

**Bonding Agent** On concrete surfaces, brick, block work and for renderings. Also for waterproof renders and floor screeds.

(A) This should be mixed to a grout consistency and have the following composition (composition)  
Rock Bond SBR one part, water one part.  
Cement one part, washed fine sand one part.

(Coverage 4 - 5 m<sup>2</sup> / liter of Rock Bond SBR). m<sup>2</sup>

(B) Apply the bonding grout generously and vigorously with a stiff brush to the pre-wetted, prepared substrate.

(C) The first mortar coat must then be applied while the bonding grout is still wet.

**Mixing :**

- Mix dry ingredients with a mix of water and Rock Bond SBR (1:1 to 1:4).
- Keep mortar and concrete mixes as stiff as possible for the intended use. Mix for a minimum of 3 minutes.
- If mixing Rock Bond SBR with a pre-packaged product the amount of total water in the mix should be reduced to compensate for the addition of Rock Bond SBR .
- Do not over mix mortars containing Rock Bond SBR .
- Do not add neat Rock Bond SBR to a mortar mix; always add it to the water prior to mixing.
- Always use well graded, clean, washed sand.
- Always keep the W/C ratio to the minimum required to provide correct workability and compaction.

**General****Recommendations**

- Do not use neat Rock Bond SBR as a bonding grout, without adding cement and sand.
- Maximum dilution of Rock Bond SBR with the mixing water is 1:4 (Latex: Water).
- Normal 'concrete' mixers are not suitable for Rock Bond SBR mortars; the higher performance Crete angle or forced action paddle type mixers are recommended for more efficient and speedier mixing of the mortars.

Always keep the water/cement ratio to a minimum to enable correct working and compaction. A W/C of less than 0.4 is advised.

- Rock Bond SBR mortars should not be over mixed.
- Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of Rock Bond SBR mortars, by the use of polythene, damp Hessian or concrete curing compounds. Always use sharp sand, clean and washed.
- Maximum thickness per lay 40 mm.

Ensure hardened layers are mechanically "keyed", wetted and grouted.

- Renderings, floor toppings etc., should be allowed to cure correctly. If temperatures drop to 0°C or less (minimum application temperature), protect the uncured mortar against frost.

**SAFETY INSTRUCTIONS****Ecology****Transport**

Non-hazardous.

**Safety Precautions**

Contact with skin, eyes or mucous membrane may cause irritation. Wear gloves and goggles.

**Toxicity**

Non-toxic under the relevant health and safety codes



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**CONSTRUCTION**