

# ROCKBOND SCP LTD

## FORMULATORS, MANUFACTURERS AND CONSULTANTS OF SPECIAL CONCRETE PRODUCTS

Newton's Farm Estate, Wissington, Nayland, Suffolk.CO6 4LX, England  
Telephone: 01206 265116

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

### ROCKBOND SBR LATEX CONCENTRATE

#### DESCRIPTION:

ROCKBOND SBR LATEX CONCENTRATE (RB SBRLC) is a polymer dispersion of styrene butadiene rubber in water. The latex is used as an additive to enhance the all round performance of site batched cementitious materials: the flexibility, flexural, tensile, cohesive and adhesive strength of concretes, floor screeds, mortars and renders are all improved. The latex also increases the impermeability, the waterproofing properties and the chemical resistance of the hardened material. The latex is supplied to order and has a shelf life of 2 years.

#### SPECIAL PROPERTIES:

- \* Can be used as a primer for concrete: mix 1 part SBR latex to 3 parts water.
- \* Formulated for use with site batched materials.
- \* Reduces air entrainment, settlement and shrinkage.
- \* Improves the adhesive strength of repair and flooring materials to brick and concrete.
- \* Increases the flexural and tensile strengths of mortars and concretes.
- \* Imparts flexibility to site batched repair materials and floors.
- \* Increases the impermeability and resistance to chemical attack, and enhances durability.
- \* Will not break down or re-emulsify.
- \* Water based: mixing equipment and tools are easily washed and cleaned with water.
- \* Economical, non flammable, non toxic, odour free, user friendly and safe to use.

#### USES:

- + To penetrate, consolidate, strengthen, seal and protect brick and concrete substrates.
- + To reduce suction, and to prime concrete and brick to increase the bond strength of repair materials.
- + For site batched flooring materials, and repair materials for floors.
- + To waterproof site batched concretes, mortars and renders.
- + To prevent frost attack to brick and concrete.
- + For site batched materials that require a greater tensile strength and flexibility.
- + For use as an adhesive when mixed with cement to bond cement, render, mortar, concrete, masonry, brick, stone, wood, plastic, glass and steel to other construction materials.
- + For use in chemically aggressive environments, such as marine defences, food factories, dairies, abattoirs and fertiliser plants and stores.

#### MIXING INSTRUCTIONS:

ROCKBOND SBR LATEX is added to the mix water and mixed with cement and sand, or cement, sand and aggregate, using a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC), an electric power tool (1kW), and a ROCKBOND CONCRETE STIRRER (RB CS). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

The dosage rate of the SBR LATEX CONCENTRATE is 5% by weight of total cement in the mix.

If necessary, trial mixes should be carried out using the latex with site batched materials to determine the consistency and strength characteristics of the mixed concrete, mortar or render.

## ROCKBOND SBR LATEX CONCENTRATE, MIXING INSTRUCTIONS CONTINUED...

Add the appropriate quantity of water and latex to the container or mixer.  
Add the cement and sand, or cement, sand and aggregate.  
Mix until homogeneous.  
The mortar or concrete is now ready for use.

The following mix is recommended for producing high quality concrete floors:

Portland cement:	100kg
Sand 1mm nominal size	125kg
Granite aggregate 3 to 6mm	125kg
ROCKBOND SBR LATEX	5 litres

Mix with water to obtain the required consistency

### APPLICATION PROCEDURE:

For concrete repairs, the correct and proper preparation of the substrate is essential if a successful application is to be carried out. 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 concrete substrates, use 1 part ROCKBOND SBR LATEX to 3 parts water (1:3) to penetrate, consolidate, strengthen and seal the surface which should be dry. 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 perimeter of the repair area. Let the latex dry out, usually 15 to 20 minutes depending on conditions.

To prime the substrate and to enhance the bond, apply a second coat of the latex (1:3) to the first coat. Normally, 1 litre of ROCKBOND SBR LATEX (1:3) will treat 5m<sup>2</sup> of concrete surface with a two coat application.

With repair materials or renders containing the latex, form a contact coat to maximise the contact of the repair material to the concrete. With a gloved hand, RUB and work the mortar or render well into the substrate and completely coat the concrete surface. Place and compact further amounts of mortar onto the contact coat. Build the material up to the required level, smooth and finish.

If the latex is to be used in a floor screed, prepare the sub floor concrete as for concrete repairs. Form a bonding coat: dilute 1kg (1 litre) of the ROCKBOND SBR LATEX to 3kg (3 litres) with water. Add increasing amounts of Portland cement to the diluted latex, and mix to give a wet paint consistency. Brush the bonding coat completely and evenly over the base concrete. Mix and pour the screed onto the bonding coat, wet on wet, and bring the screed up to the required level and finish.

Once the concrete or screed is in place and has gained sufficient strength, apply ROCKBOND CURE (RB C) at the rate of 10m<sup>2</sup>/litre. During adverse curing conditions, repeat the procedure.

For use as an adhesive: dilute 1kg (1 litre) of the Rockbond SBR Latex to 3kg (3 litres) with water. Add increasing amounts of Portland cement to a quantity of the diluted latex, and mix to a good paint consistency, not too stiff or too wet. Apply one coat of the paint to each of the surfaces to be bonded and, if possible, clamp and hold together. Let the adhesive cure for at least 24 hours at 20°C.

## ROCKBOND SBR LATEX CONCENTRATE CONTINUED...

### HEALTH, SAFETY AND STORAGE:

ROCKBOND SBR LATEX CONCENTRATE is non toxic and safe to use. However, if splashes enter the eyes, the latex must be immediately washed out with plenty of clean running water. Continue the treatment for several minutes with the eyelids kept open. If the latex is ingested, give the patient plenty of water to drink. Wear goggles, a mask and protective clothing while handling, spraying and applying the material. 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:

Gilbert Cox BSc,  
Technical Director,

Rockbond SCP LTD.,  
Newton's Farm Estate,  
Wissington,  
Nayland,  
Suffolk,  
CO6 4LX.  
England.

Telephone: 01206 265116

Website and e-mail at:  
[www.rockbond.co.uk](http://www.rockbond.co.uk)

### IMPORTANT NOTE:

ROCKBOND SCP LTD provides the above information in good faith and without warranty. The data represents typical values which can be updated at any time, and this information supersedes previous issues. No liability can be accepted for any damage or loss arising from the use of ROCKBOND SCP LTD literature or its products, because the company has no continuous control on how the products are mixed, placed or cured.

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