

# SOPRA Bond SBR

## Water Resistant Polymer Bonding Agent

### Description

SOPRA Bond SBR is an aqueous dispersion of fine particles of styrene butadiene polymer. It is designed to improve the quality of site-batched cementitious mortars and slurries.

### Uses

- \* Base coat for renderings and toppings.
- \* Cement renderings and mixed-type renderings.
- \* Waterproofing coat for plaster finishes.
- \* Cement toppings (not manually compacted)
- \* Toppings containing special aggregates and cement.
- \* Mortars for finish and reprofile corners and external trim.
- \* Jointing mortars for masonry.
- \* Floor repairs.

### Advantages

- \* Single component liquid - ease of application
- \* Improves mortar plasticity.
- \* Improves tensile and impact strength.
- \* Excellent bond to concrete, masonry, stonework and plaster.
- \* Improves mortar resistance to oil, grease and weak acids.

### Standards Compliance

BS 5270

### Packaging

5 ltr can  
20 ltr pail and 210 ltr drum

### Storage

12 months storage life when stored in original containers at between 5 and 35 °C.

### Properties

Appearance Milky white liquid  
Specific gravity @ 25°C, 1.01

### Application Instructions

#### Surface preparation

The surface must be clean, sound, scoured and free from any loose material or dust. All surfaces to be treated should be thoroughly washed with clean water. The surface must be wet and its temperature should be above 5°C at the time of application.

#### Preparation of SOPRA Bond SBR Solution

A. SOPRA Bond SBR 1 part  
Clean water 2 part

Use this solution for all mixing operations except Gypsum Grout.

Preparation for grouts, mortar rendering and cement grouts

B. Typical mix  
Cement 50 kg  
Sand (3mm) 150 kg

Mix one litre of SBR solution 'A' per 3.5 kg of dry mix, to achieve desired consistency.

#### Toppings

Use broom to apply cementitious mixture 'B' to a thickness of 2-3 mm. While this coat is

still fresh, apply mixture 'B' mixed to a no-slump consistency.

Screed and smooth surface with a wood float or a steel trowel. An hour or two later, spray on 150 g/m<sup>2</sup> of solution A to prevent dessication. Moisten after 24 hours and keep damp for three days.

To improve resistance to wear and tear and corrosion, replace mortar B with a mix composed of 50 kg cement, 40 kg hard finishing aggregates, and 50 kg of 0-3 mm sand.

#### Finishes and Rendering Profiles

Use mix B with 0 -2 mm sand to obtain a film forming consistency. Apply solution A to the surface with a bristle brush. Apply mortar when the surface is still sticky. Screed using a board or wood float. Use steel trowel for manual compaction.

**Bonding Fresh concrete to Hardened Concrete**  
Hose down concrete areas to be joined (pressurized water). Mix mortar B to a plastic consistency. Apply to wetted surface until the thickness reaches 2 to 3 cm. Pour concrete immediately. It is important to achieve an integral bond between concrete and mortar, normal compaction techniques should be used.

#### Jointing Mortars

##### Masonry

Wet and prepare surface as previously indicated. Mix mortar B to a plastic consistency and apply to the surface immediately. Press block to stick firmly to the surface. Use scraper to remove excess mortar at edges before finishing the joint.

#### Floor Tiling

Prepare surface as previously indicated. Mix special mortar using solution A and one part cement, 3 parts sand. Spread mortar and lay tile. Tamp down to force mortar into the joints. Surfaces must be ready for the tiles when the mortar is spread, lay tile before mortar starts to set. For joints, use a cement grout of grey white cement mixed with solution A.

#### Joints and Roofing

If necessary, dig out joints (several cm deep). Hose down using pressurized spray. Apply mortar B to pre-wetted surfaces. Make sure joints are not too deep. Use mortar B for roof repairs to ensure water tightness (mortar fillers).

#### Floor Repairs

Prepare surface as previously indicated, use broom to apply cement grout B to surface. Apply mortar B while it is still fresh. Screed and compact with wood float or steel trowel.

#### Floor Surface Treatments

##### Waterproofing, Dustproofing

Ensure that surface is dust-free. Apply cement grout B to pre-wetted surface. The grout should contain a fine sand (0 - 1 mm) and be mixed to a creamy or fluid consistency. Use bristle brush to apply 1 or 2 layers. Apply second layer after 4 to 5 hours.

#### Precautions

##### Health and Safety

SOPRA Bond SBR is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and

**Water.**