

# OPTOMIX SBR

## Waterproofing Bonding Aid

### PRODUCT DESCRIPTION

**Optomix SBR** is a styrene-butadiene co-polymer latex emulsion specially designed for use in cementitious mixes. **Optomix SBR** is used as an admixture to improve durability, abrasion resistance, water resistance and strength in screeds, renders, concrete and mortar. The improvement in physical properties using **Optomix SBR** is generally superior to those obtained with other modifying agents. **Optomix SBR** can also be used with cement as a reliable water resistant bonding primer.

### APPLICATIONS

**Optomix SBR** is used in floor screeds and toppings, repair mortars, external rendering, waterproofing, bonding, lining and fixing.

### BENEFITS

- Increased flexural strength.
- Increased tensile strength.
- Increased durability and toughness.
- Improved frost and abrasion resistance.
- Resistance to many chemicals and mineral oils.
- Excellent adhesion to steel and concrete.
- Improved adhesion to brick, glass, wood & asphalt.
- Enhanced corrosion protection.

### PROPERTIES

Nature:	Liquid
Appearance:	Milky White
Specific Gravity: (20°C)	1.00 g/cm <sup>3</sup>
pH:	8.0
Chloride Content:	< 0.10
Alkali Content (Na <sub>2</sub> O):	< 2.00

### ADDITION RATES

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

See **NOTES** section

### STANDARDS

**Optomix SBR** complies with the requirements of BS EN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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### NOTES

#### Preparation.

Surfaces to which **Optomix SBR** mixes are to be applied, should be clean and free from deleterious materials, when repairing spalled or damaged concrete, ensure that the concrete is cut back.

#### Bonding Coat.

Damp down absorbent surfaces so they are saturated surface dry, using a mix consisting 2 parts CEM I mixed with 1 part SBR gauging fluid (3 parts **Optomix SBR**:1 part water) by volume. Mix into a smooth paste. Primer is brushed onto the prepared surface ensuring there is no free standing water, using a stiff brush or broom. Apply topping whilst bond coat is still tacky. If allowed to dry then remove bond coat and re-prime using the same procedure. Coverage of bond coat paste: approx. 3m<sup>3</sup> per litre, depending on smoothness and porosity of substrate surface and applied thickness.

#### Mortars & Screeds.

Standard dose of 20 litres of **Optomix SBR** per 100kg Portland cement is adequate. For extreme conditions, where improved waterproofing and/or chemical resistance is required then the dosage should be increased to 30 litres of **Optomix SBR** per 100kg of Portland cement. (With higher dosages, the extra water addition is very low. Therefore, use of wet aggregates and sand may result in excessive workability.)

#### Curing.

Correct curing of **Optomix SBR** modified mixes is important. Moisture cure for at least 1 day and allow to dry out slowly. Moisture curing is important to ensure hydration of the Portland cement.

The **Optomix SBR** mortar must then be allowed to dry out to permit the latex polymer particles to join together to form a continuous polymer/concrete matrix.



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### COMPATIBILITY

**Optomix SBR** is compatible with all types of EN197 cement systems.

**Optomix SBR** should not be pre-mixed with other admixtures and should be batched separately.

### STORAGE

**Optomix SBR** should be stored undercover and protected from extreme temperatures, if stored between the range 5°C to 30°C the product will have a minimum shelf life of 12 months.

### HANDLING

Please refer to the **Optomix SBR** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

### PACKAGING

200 litre drums, 1000 litre IBC's and bulk deliveries.

### PROTECTION

**Optomix SBR** should be protected from frost, permanent damage may occur by freezing, especially if thawed to quickly.

All tools should be cleaned immediately with water after use, if delayed, then use of soap and scouring pad may be required

Please consult the OSCRETE technical department for advice on admixture selection.

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#### Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

