

Optomix SBR Bond

Optomix SBR is a white coloured Styrene-Butadiene Copolymer Latex designed for use as a Bonding Aid and a Waterproofing additive with Cement compositions. Optomix SBR is used in concrete repairs, rendering, concrete protection, waterproofing and tanking. Optomix SBR is used to produce modified mortars which are durable and have a high abrasion resistance. The pure polymers used in Optomix SBR react with cement based mixes, increasing the compressive, flexural and bonding strengths of the mix. Using Optomix SBR in the mix also increases the wearing and abrasion resistance of the screed or mortar.

- Increases tthe flexural strength of screeds and mortar
- Increases the compressive strength of screeds and mortar
- Increases the abrasion resistance of screeds and mortar
- Excellent adhesion to steel, glass, asphalt
- Suitable for use with drinking water
- Suitable for both positive and negative water pressure applications
- Enhanced corrosion protection
- Environmentally friendly, non-toxic and chloride free

Specification Tip for Design Professionals

Optomix SBR may be specified by name or by using the following description: a propriety white coloured Styrene-Butadiene Co-polymer Latex liquid bonding-aid and admixture used to increase the physical and chemical properties of cement-based mortars and concrete.

Field Of Application

Optomix SBR can be mixed with cement as a bonding slurry for screeds, renders and mortars. The improvements allow the production of high-strength wearing screeds, thin section screeds, repair mortars and waterproof mortars.

Substrate & Preparation

All surfaces onto which Optomix SBR modified mixes are to be applied should be sound and free from loose particles, dust, clean and free from coatings or any other contaminants which may effect the adhesion of the screeds and mortars. When repairing spalled or damaged concrete, ensure that the concrete is cut back.

Mix Instructions

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 reprime using the same procedure. Coverage of bond coat paste: approx. 3m³ 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.)

Application

Mix should always be designed in consultation with the SMET technical team: call UK +44 (0)28 3026 6833. Stir well before use. After correct preparation surfaces should be damped-down with clean potable water prior to application of the Optomix SBR Bonding Aid.

- Using a soft brush apply a layer of the Bonding Aid to the prepared area working the solution in well.
- Using a trowel slightly compact the Optomix SBR Modified Screed or Mortar into place whilst the Optomix SBR Bonding Aid is still tacky.
- Use a wooden float or a steel trowel to achieve the required finish.

Curing: Mist cure with clean potable water until fully cured.

Restrictions

Note: Optomix SBR Modified Screeds/ Motars should be protected from rain for at least 24 hours after application. SBR Modified Motars should not be applied if the temperature is 5°C or below or are expected to fall below 5°C in the following 24 hours. During application the temperature must not drop below +5°C or rise above +30°C.

Coverage

Coverage: 3m² per litre – Bonding Coat.

Consumption: 5 litres per 25kg of Cement – Screeds and

Mortars.

The information, and, in particular, the recommendations relating to the application and end-use of SMET distributed products, are given in good faith based on SMET's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the manufacturer's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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Cleaning

Once dried, Optomix SBR is difficult to remove, thus care should be taken to clean tools quickly before hardening, using cold clean water. If delayed, then use of soap and scouring pad may-be required

Packaging

Optomix SBR is packed in 25ltr, 200ltr and 1,000ltr containers.

Storage

Optomix SBR should be stored in its original manufacturers containers in dry conditions above 5°C and protected from frost.

Disposal Considerations

Waste treatment methods. General information. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

Safety

All standard precautions for the handling of construction materials/chemicals must be taken. See Optomix SBR Safety Data Sheet for further detailed information. Classification of the substance or mixture:

Classification (SI 2019 No. 720) Physical hazards Not Classified. Health hazards Skin Sens. 1 - H317. Signal word: Warning. Contains 1,2-benzisothiazol-2-methylisothiazol-3(2H)-one. 3(2H)-one, Detergent labelling: Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE, 2-METHYL-2H-ISOTHIAZOL-3-ONE.

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P261 Avoid breathing vapour/ spray.

P321 Specific treatment (see medical advice on this label). P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/ container in accordance with national regulations.

Technical Information

Form	Milky White Liquid
рН	8
Specific Gravity (20°C)	1.00 g/cm ³
Chloride Content	< 0.10
Alkali Content (Na2O):	< 2.00
Mixing	Mix should always be designed in consultation with the SMET technical team. Call: +44 (0)28 3026 683
Shelf Life	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.









