

SBR Bond

SBR Bond is a white coloured Styrene-Butadiene Co-polymer Latex designed for use as a Bonding and Waterproof additive with Cement compositions. SBR Bond is used in concrete repairs, rendering, concrete protection, waterproofing and tanking. SBR Bond is used to produce modified floor screeds which are durable and have a high abrasion resistance. The pure polymers used in SBR Bond reacts with cement based mixes thus increasing the compressive, flexural and bonding strengths of the mix. Using SBR Bond in the mix also increases the wearing and abrasion resistance of the mortar.

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

Specification Tip for Design Professionals

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

Field Of Application

SBR Bond 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

The substrate must be free of all oil, existing sealers or other contaminants. All loose material should be removed and a key provided, using a scabbling machine or vacuum-shot-blaster. The surface should be pre-dampened with water prior to application of the bonding grout. Do not allow ponded water to remain on the surface.

Mix Instructions

SBR Bonding Solution: May be used neat, or mix 1 part SBR Bond with 1 part Portland Cement.

SBR Bond Screed / Mortar: Use SBR Bond at the rate of 5litres per 25kg of Ordinary Portland Cement.

Application

Mix should always be designed in consultation with the SMET technical team. Stir well before use. After correct preparation, surfaces should be damped-down with clean potable water prior to application of the SBR Bond Solution.

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

Do not use neat as a bonding primer, without the addition of cement. Avoid using excess water. Maximum dilution should be 1:3 with clean water. Free fall mixers are not suitable for SBR Bond mortars; high performance, forced action paddle-type mixers are recommended for more efficient and speedier mixing of the mortars. For small quantities, a slow speed drill and paddle is recommended. Always keep the water/cement ratio to a minimum to enable correct working and compaction. A W/C ratio of less than 0.4 is advised. Thick screeds should be laid in layers of 20 mm, thoroughly compacted and immediately followed by another 20 mm. This is repeated to the desired thickness. Ensure hardened layers are properly keyed, pre-dampened and bonded. Care should be taken to prevent rapid drying. Mist cure with clean potable water until fully cured.

Restrictions

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. Variations in cement used and workability can cause differences.

Coverage

3m² per litre - Bonding Solution

5 litres per 25kg of Cement – Screed / Mortar.

SBR Bond

Cleaning

Once dried, SBR Bond is difficult to remove, thus care should be taken to clean tools quickly before hardening, using cold clean water.

Packaging

5 and 25 litre containers.

Storage

Keep dry, protect against sub-zero temperatures and frost. In original sealed containers, material can be stored for at least 12 months. Note SBR Bond may be permanently damaged by freezing, particularly if thawed quickly.

Disposal Considerations

13.1 Waste treatment methods. In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. Waste water from subsequent processing should be given appropriate treatment in line with local regulations. Contaminated packaging : In accordance with local and national regulations.

Safety

All standard precautions for the handling of construction materials/chemicals must be taken. See SBR Bond Health and Safety Data Sheet for further detailed information.

Classification (REGULATION (EC) No 1272/2008)
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

This mixture is not classified as dangerous according to Directive 1999/45/EC.

EUH208 Contains: 2-Methyl-2H-isothiazol-3-one, 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Ensure adequate ventilation, especially in confined areas.

Respiratory protection : not required under normal use

Hand protection : Protective gloves complying with EN 374.

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : not required under normal use. Skin should be washed after contact. Remove and wash contaminated clothing before re-use.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

Technical Information

Colour	Milky white liquid
pH	10.0 ISO 976*
Total Solids Content	47.0% ISO3251*
Viscosity (Brookfield LVF, 60rpm)	90 mPa ISO1652*
Storage	Between 5 and 35°C, in a dry, area away from direct sunlight. Protect from frost.
Mixing	Mix should always be designed in consultation with the SMET technical team. Call T : +44 (0)28 3026 683
Flash Point	Non Combustible
Shelf Life	12 months in original, unopened package

* internal method based upon the specified norm.