

Technical **Data** Sheet

DATA

SBR Bonding Additive

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Description

An aqueous dispersion of Styrene Butadiene Copolymer giving a high performance water resistant SBR bonding agent and admixture for adding to sand/cement renders, cementitious flooring screeds and repair compounds. It can be used externally and internally in areas of intermittent or continuous water contact. Especially suitable for renders and floors with high abrasion resistance and for patching and bonding onto substrates of low suction.

Special Properties

- Improves adhesion and bonding
- Reduces shrinkage and cracking
- Suitable for use in damp conditions
- Allows reduction in water content
- Improves workability and strength
- Improves chemical and water resistance
- Improves abrasion resistance
- Improves flexibility

Preparation

All surfaces should be sound, free from laticence, oil, grease and surface water. Before the application of a bonding slurry surfaces of high suction should be thoroughly dampened. Preparation of the surface can be achieved by the use of mechanical scrubbling or grit blasting to give a clean fresh exposed surface.

Method of Use as a Bonding Agent

An SBR bonding slurry is recommended to improve the adhesion of cement based mixes onto surfaces of low suction, and also as a treatment prior to applying any SBR modified mix.

To produce the bonding slurry dilute SBR Bonding Additive with an equal volume of water then mix to a smooth creamy consistency with ordinary Portland Cement. The approximate mix is 1 part SBR: 1 part water: 5 parts cement (by volume) giving an approximate coverage of 30m² per 5 litres of SBR per coat. Following preparation of the substrate as detailed above the bonding slurry should be brushed vigorously into the surface giving an approximate 1 mm thickness. Subsequent coatings must be applied while the bonding slurry is still wet. Should the slurry dry then a further coat must be applied.

Rendering

To produce dense impermeable renders for use in areas where water or chemical resistance is required then the following mix is recommended.

Cement	50kgs	
Sand	125kgs	Clean, sharp complying with BS 1199.
SBR	15litres	
Water	as required	
Coverage	at 12mm thickness approximate 8m ²	

After preparing the substrate apply a bonding slurry as described above. While the slurry is still wet, apply the rendering mix to a thickness of 6mm. Scratch the render and allow to dry for a minimum of 6 hours before applying a second 6mm coat or render.



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Bedding Mix

The mix recommended for rendering can also be used for bonding tiles, kerbstones, coping stones, mosaics, brick slips etc. Prepare and apply the bonding slurry to both surfaces, then apply the render mix to the wall/floor and bed on the tiles etc.

Patching Mix

The mix recommended for rendering can also be used for patching renders or concrete. Should reinforcing steel be present then that should be prepared by removing all loose rust then prime by applying one layer of bonding slurry and leaving overnight. A second layer of bonding slurry should then be applied to the steel and the prepared area of concrete to be patched and the rendering mix applied while the bonding slurry is still wet.

Damp Proofing

Where dampness is expected from behind the plaster (basements and cellars) then three layers of bonding slurry should be applied. Brush the first coat of bonding slurry into the substrate then allow to become touch dry. Apply a second coat of bonding slurry at right angles to the first, stippled to provide a key, then leave to dry for at least 48 hours. Apply a third layer of bonding slurry and trowel the render coat into this while it is still wet. The plaster to be used should be the render mix described overleaf. This system is suitable for new work or where the substrate is sound i.e. engineering brick or concrete.

Flooring

To produce high quality, hard wearing floors the following mix is recommended:

Cement	50kgs
Sharp Flooring Sand	75kgs
3mm Granite Chips	75kgs
SBR	10 litres
Water	as required
Coverage	at 12mm thickness approximately 8m ²

Prepare the base thoroughly and apply a bonding slurry. The materials should be mixed to a semi-dry consistency and applied into a wet bonding slurry at a thickness of 25mm. For floor toppings above 25mm reduce the SBR to 5 litres and add extra water to produce a semi-dry mix.

Product Data

Protect from frost. Do not store above 40°C. Minimum shelf life 18 months in sealed containers. Available in 5 and 25 litre containers. Cleaning - disperses in water.

Safety Precautions

Prolonged skin contact should be avoided if possible. Wet liquid may be removed with water. Dry film may be removed with surgical spirit. Wear rubber gloves and eye protection. In case of eye contact irrigate with water. In case of accidental ingestion seek medical advice. Non flammable.

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