

Febond SBR

Waterproofer & Bonding Admixture

Polymer improver for cement.

- Concrete repair
- Floor screeds & toppings
- Waterproofing & tanking

Colour	Product Code	Pack Size	Box Qty
White	FBBONDSBR5	5LTR	4
	FBBONDSBR25	25LTR	1
	FBBONDSBR205	205LTR	1



Bonding Agents

Febond SBR

Product Description

FEBOND SBR is a styrene-butadiene co-polymer latex specifically designed for use with cementitious mixes and as a reliable water resistant bonding agent.

Typical Uses

- Concrete repair/floor screeds and toppings/ external rendering.
- Waterproofing and tanking and Fixing brick slips and tiles.
- Corrosion protection of steel and silage pit lining and protection.

Features & Benefits

FEBOND SBR modified cement based mixes have the following advantages:

- Greatly increased flexural and tensile strength. Gives greatly reduced shrinkage.
- Prevents bleeding and lower water-cement ratio.
- Increased durability and toughness, improved abrasion resistance. Good frost, abrasion resistance and resistance to water-borne salt penetration.
- Resistant to many chemicals and to mineral oils.
- Excellent adhesion to steel and concrete. Sticks well to brick, glass, asphalt, wood, expanded polystyrene etc

Instructions for Use

Preparation of Substrate

All surfaces must be clean and sound. When repairing spalled or damaged concrete, ensure that the concrete has been cut back to thoroughly sound material. Always lay to a minimum 6mm deep saw cut edge, depending upon application. Avoid 'feather edging'.

Bonding Slurry

Dampen surfaces. Prepare a bonding slurry of approximately 1.5 parts of OPC to 1 part of FEBOND SBR by volume. Apply by stiff brush scrubbing well into the surface, taking care to ensure complete coverage. Do not exceed an average thickness of 0.3 to 0.5mm and thickness

per coat. If a second coat is necessary it should be applied at right angles to the first. Never apply more than can be comfortably over-screeded/ rendered within 15 minutes.

Mixing

Premix dry sand and cement for about one minute. Pour the desired quantity of FEBOND SBR and mix for about 30 seconds only, to minimise air entrainment. Slowly add water, whilst still mixing, until required consistency is obtained. The total mixing time after adding the FEBOND SBR should not exceed two minutes.

Application - Rendering to vertical surfaces

Apply the bonding as above and allow to tack up. Renders should not exceed 6mm depth per coat (slump risk). However, several coats can be applied in fairly rapid succession, usually within 15 to 30 minutes. Finish using a wooden float or steel trowel. Alternatively, scratch the first coat of render after application and allow to dry overnight before applying the second coat. This technique is preferred for rendering where the drying rate is low but not recommended when waterproofing.

Screeds and toppings, applied to horizontal surfaces

Suitable for any thickness from 40mm down to

6mm minimum. After mixing, the FEBOND SBR modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. Trowel to required finish using a wooden float or steel trowel.

Curing/After Treatment

Moisture cure for at least one day and then allow to dry out slowly. The latex mortar must then be allowed to dry out to permit the latex particles to join together to form continuous films and strands.

Coverage

As a bonding coat: 1ltr of FEBOND SBR (slurried) per 3 m² of substrate

Admixture: 10-15ltrs of FEBOND SBR per 50kg cement

Storage

Stir before use. Protect from frost, FEBOND SBR may be permanently damaged by freezing, particularly if thawed quickly.

Shelf Life

Up to one year when stored under normal conditions and temperatures (5°C - 20°C).

Technical Data/Typical Properties

Typical properties of a FEBOND SBR modified cement and sand mix are given below.

Performance Data

Compression strength	45 to 50N/mm ² †
Tensile strength	Up to 6.5N/mm ² †
Flexural strength	Up to 13N/mm ² †
Freeze thaw resistance	Excellent
Water vapour permeability	Less than 4g/m ² / 24 hour through an 11mm thick test piece*
Chemical resistance	Resists mild acids, alkalis, sulphates, chlorides, urine, dung, lactic acid, sugar.
Resistance to water pressure	- 30m head Excellent - no water penetration through a 15mm thick test piece*

Unless otherwise stated, these are based on a '3 parts sand to 1 part cement by weight' mix in which 10 litres of FEBOND SBR per 50kg of OPC have been incorporated. † Indicated results are typical. Variations in cement used and workability can cause differences. * FEBOND SBR added at 15 litres/50kg cement used