

PRODUCT DATA SHEET

Feb[®] Febond[®] SBR

WATERPROOFER AND BONDING ADMIXTURE DESIGNED FOR USE WITH CEMENTITIOUS MIXTURES

PRODUCT DESCRIPTION

Feb[®] Febond[®] SBR is a styrene-butadiene co-polymer latex specifically designed for use with cementitious mixes and as a reliable water resistant bonding agent. It is used in mortar and concrete as an admixture to increase water and abrasion resistance and durability. Ideal for concrete repair.

USES

- Concrete repair.
- Floor screeds and toppings.
- External rendering.
- Waterproofing and tanking.
- Fixing brick slips and tiles.
- Corrosion protection of steel.
- Silage pit lining and protection.

CHARACTERISTICS / ADVANTAGES

- Greatly increased flexural strength.
- Tensile strength increased.
- Greatly reduced shrinkage (with appropriate aggregate).
- Prevents bleeding.
- 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 and most building materials.
- Enhanced corrosion protection.
- Proven performance.
- Similar thermal expansion and modulus properties to concrete.

PRODUCT INFORMATION

Chemical Base	Styrene-butadiene copolymer latex
Packaging	5ltr and 25ltr jerrys
Colour	White
Shelf Life	12 months when stored under normal conditions and temperatures (5°C - 20°C)
Storage Conditions	Stir before use. Protect from frost, Feb [®] Febond [®] SBR may be permanently damaged by freezing, particularly if thawed quickly
Consistency	Liquid

TECHNICAL INFORMATION

Chemical Resistance	Resists mild acids, alkalis, sulphates, chlorides, urine, dung, lactic acid, sugar, etc.
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APPLICATION INFORMATION

Yield

When using as a bonding coat 1 litre of Feb® Febond® SBR will typically produce enough slurry to coat 3 square metres of substrate dependent on surface texture and thickness applied. For all normal use the standard dose of 10 litres of Feb® Febond® SBR per 50 kg Portland Cement is adequate. For extreme conditions and/or where adhesion, waterproofing, water vapour resistance or chemical resistance are critical, the dosage should be increased to 15 litres of Feb® Febond® SBR per 50kg Portland Cement. For this higher dosage, the extra water addition required is low and, therefore, use of wet aggregate may result in excessive workability.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces to which Feb® Febond® SBR mixes are to be applied should be clean, sound and free of deleterious substances. 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

Wet down absorbent surfaces, such as concrete and brick, so that they are damp but surface dry when the bonding slurry is applied. Prepare a bonding slurry of approximately 1.5 parts of OPC to 1 part of Feb® Febond® SBR by volume. The normal method of application is by stiff brush scrubbing well into the surface, taking care to ensure complete coverage. A typical single slurry coat has an average thickness of 0.3 to 0.5mm and thickness' significantly above this should be avoided. 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

Mixing should preferably be carried out in a forced action mixer, a Crete angle is recommended. Hand batching is only permissible when the total weight of the mix is less than 25kg. Charge the mixer with the required quantity of sand and cement and pre-mix for approximately one minute. Pour the desired quantity of Feb® Febond® SBR and mix for about 30 seconds only, to minimise air entrainment. Slowly add water, whilst still mixing, until required consistency is obtained. (Stop mixer when testing consistency). The total mixing time after adding the Feb® Febond® SBR should not exceed two minutes. Owing to the strong plasticising properties of Feb® Febond® SBR, rapid thinning can occur - avoid adding excessive water.

APPLICATION METHOD / TOOLS

Rendering to vertical surfaces

Apply the bonding slurry to the prepared surface and apply the render while the bonding slurry is still wet or tacky, generally within 15 minutes. It is preferable to apply Feb® Febond® SBR modified mortars in coats to a maximum thickness of 6mm per coat, as greater thickness can lead to slumping; however, several coats can be applied in fairly rapid succession, usually within

15 to 30 minutes. Thicker coatings can be applied providing suitable formwork is used. Close the surface 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. Another method is to allow the first coat of render to dry overnight, and then apply a further slurry coat before applying the second coat of render.

Screeds and toppings, applied to horizontal surfaces

Screeds, patches, etc., based on Feb® Febond® SBR modified cements, can be laid to any thickness from 40mm down to 6mm minimum. After mixing, the Feb® Febond® SBR modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. It may then be trowelled to the required finish using a wooden float or steel trowel. Note:

Whenever screeds are being laid over existing concrete surfaces, it is important that expansion joints in the sub-floor are carried through the Feb® Febond® SBR modified mix. This can be done by fitting a temporary timber batten wrapped in a layer of polythene.

Curing/After Treatment

Correct curing of Feb® Febond® SBR modified mixes is important. Moisture cure for at least one day and then allow to dry out slowly. Initial curing is necessary to ensure hydration of the Portland Cement. The latex mortar must then be allowed to dry out to permit the latex particles to join together to form continuous films and strands.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-re-

lated data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika'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 must test the product's suitability for the intended application and purpose. Sika 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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