

PRODUCT DATA SHEET

SikaBond® SBR

Styrene Butadiene-based waterproof bonding agent, primer and mortar admixture

PRODUCT DESCRIPTION

SikaBond® SBR is a styrene-butadiene co-polymer, which has numerous uses as an admixture, primer, bonding agent and sealer for use in areas subject to humidity, dampness and water contact. Improves water resistance of cement mixtures by forming a reinforcing polymer that increases long term durability and flexibility of the mix on renderings and floor screeds. An admixture for cement and concrete applications, including repair and renovation, surfacing of floors and bonding generally. It contains anti-foam to control the density of cementitious mixes.

USES

- Component to improve concrete repair.
- Component to improve external rendering.
- Waterproofing and tanking mortar preparation.
- For corrosion protection of steel.
- Silage pit lining and protection.
- Admixture for mortar, screeds and renders.
- Bonding agent for screeds and renders.
- Primer and sealer in tiling applications.
- Recommended for exterior use, unlike most PVA bonding aids.
- Flexibiliser for cementitious-based tile adhesive when tiling on wooden or asphalt floors.

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion to steel and concrete.
- Adheres well to brick, tiles, glass, asphalt, wood, expanded polystyrene and most building materials.
- Mixes may be applied in much thinner sections.
- Excellent resistance to water and water vapour.
- A high level of resistance to salt permeation.
- Increased toughness and flexibility.
- Reduced surface dusting of concrete.
- Prevents bleeding.
- Enhanced corrosion protection.
- Resistant to many chemicals and to mineral oils.
- Reduced water: cement ratio for equivalent workability.
- Improved frost and abrasion resistance.
- Freeze thaw stable passing 5 cycles at -15 °C to +20 °C.

PRODUCT INFORMATION

Packaging	2.5 L, 5 L and 25 L Jerry Can. 1000 kg IBC.
Appearance / Colour	White liquid
Shelf Life	12 months from date of manufacture when stored according to manufacturer's instructions in original, unopened containers.
Storage Conditions	SikaBond® SBR is best stored at moderate temperatures (+5 to +30 °C) to avoid the possibility of permanent damage occurring due to prolonged heat or excessive cold. However if frozen, the product should be thawed

slowly. SikaBond® SBR should preferably be stirred before use. SikaBond® SBR contains sufficient bactericide to preserve the product under normal storage conditions.

Density	Approx. 1.02 g/cm ³
pH-Value	Approx. 9
Chemical Resistance	Resists mild acids, alkalis, sulphates, chlorides, urine, dung, lactic acid, sugar, etc.

VALUE BASE

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

LIMITATIONS

In common with other SBR products, SikaBond® SBR is not suitable for coloured exterior decorative renders which will not be subsequently overpainted. Its poor UV resistance may cause discolouration.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Ensure the surface is sound, clean and free of dirt, dust, flaking paint / render and grease. Agitate the bottle of SikaBond® SBR before use.

If the substrate is porous, first prime with 1 part SikaBond® SBR diluted with up to 3 parts clean water and allow to dry.

For concrete repair, brick slip and tile fixing mortars, prepare surfaces to provide a gripping profile by suitable methods.

MIXING

Mixing procedures for topping and screeds containing SikaBond® SBR are similar to those used to conventional compositions, with gauging water partly replaced by SikaBond® SBR. However, mixing time should be minimised to limit air entrainment. Mixing should be carried out in a forced action mixer. The usual procedure is to pre-mix sand and cement in the mixer, pour in the SikaBond® SBR, mix for 1 - 3 mins, then slowly add water to the required consistency.

NB: Over-addition of water causes rapid thinning of SikaBond® SBR modified mortars owing to the plasticising effect of the SikaBond® SBR. The mix design depends upon thickness and intended use. However, typical mixes for a 12 mm topping or screed are as follows:

	Screed	Topping
O.P.C	1	1
Moist sand	3.5	1.75
3 mm Washed Granite	0	1.75
SBR	0.2	0.2
(ie. 10 L per 50 kg of cement)		
Water	As required	As required
All parts are by volume of uncompacted material.		

APPLICATION METHOD / TOOLS

PRIMING

Application of a primer coat is necessary to obtain maximum adhesion of the topping or screed.

SikaBond® SBR: FLOORING APPLICATIONS

This concerns the use of SikaBond® SBR in screeds and toppings over background concrete. Adding SikaBond® SBR to a floor screed or topping gives the following advantages:

- A low water : cement ratio allows a minimum of delay when overcoating is required.
- Reduced permeability to liquids.
- Improved chemical, abrasion and impact resistance.
- Resistance to dusting.
- Thinner screeds, achieving reduction in weight and savings in materials.
- Excellent slip resistance.
- SikaBond® SBR has a long and successful track record of use in the construction industry.

SELECTION OF MATERIALS

To obtain maximum performance from mixes modified with SikaBond® SBR it is important that attention is paid to the quality of the other materials used. Sand should be well washed and sharp. The grade of sand will depend upon the mix design. Cement Portland, High Alumina and sulphate resisting cements are compatible with SikaBond® SBR. Portland cement should be fresh but cool. Cement containing air set lumps should not be used. Coarse aggregate e.g. Granite chippings should be dust free. Air entraining agents should not be used.

POT LIFE

The mix has a pot life of approximately 30 minutes and batch size should be calculated accordingly.

APPLICATION

1. Apply topping or screed onto wet or tacky primer.
2. Compact and level with screed bar. Finish with steel float. It is essential that the topping or screed is finished as the work proceeds.
3. The topping or screed would be cured for 1 - 2 days using conventional techniques. Curing should be started quickly after application.

NOTES:

Joints in the screed or topping should coincide with

the joints in the background. It is easier to lay the mix if the ambient temperature is below +25 °C. If overcoating the screed, oleoresinous floor finishes should be avoided. If the water drop test indicates the presence of water repellants, it may be more suitable to use an epoxy primer in place of the SBR/cement primer.

CLEANING OF TOOLS

All tools should be cleaned immediately after use with water because hardened SikaBond® SBR modified toppings and screeds have excellent adhesion and are therefore difficult to remove. Solvents such as white spirit can be used with coarse wire wool to help remove partially hardened mortar.

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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