

PRODUCT DATA SHEET

SikaBond® SBR+

WATERPROOF GENERAL PURPOSE BONDING AGENT AND MORTAR MIXTURE

PRODUCT DESCRIPTION

SikaBond® SBR+ is a white liquid, which has numerous uses as an admixture, primer, bonding agent and sealer. Polymer emulsions of this type have been used extensively over the last 20 years by the building industry as 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

- As an admixture for mortar/screeds/renders.
- As a bonding agent for screeds/renders.
- As a primer/sealer in tiling applications.
- As a flexibiliser for cementitious based tile adhesive when tiling on wooden/asphalt floors.
- In addition, SikaBond® SBR+ has the advantage over PVA bonding aids in that it is not adversely affected in wet conditions and is therefore recommended for exterior use.

CHARACTERISTICS / ADVANTAGES

- Greatly improved adhesion to a wide range of substrates including dense concrete, steel, tiles etc.
- Mixes may be applied in much thinner sections.
- Excellent resistance to water and water vapour
- A high level of resistance to salt permeation
- Much improved toughness and flexibility
- Reduced surface dusting of concrete
- Greatly improved resistance to many chemicals- ideal for use in dairy parlours etc.
- Reduced water: cement ratio for equivalent workability
- Improved frost resistance
- SikaBond® SBR+ is also freeze thaw stable.

Total solids	ca. 40%
Viscosity	less than 100 cPs
M.F.F.T	0°C
Freeze/thaw	passes 5 cycles at -15°C to +20°C
Calcium ions	Compatible
Aluminium III ions	Compatible
Antioxidant	Added
Bactericide	Added

PRODUCT INFORMATION

Packaging	5L & 25L jerry cans
Shelf Life	12 months in original unopened containers.
Storage Conditions	SikaBond® SBR+ is best stored at moderate (5 - 30°C) temperatures to avoid the possibility of permanent damage occurring due to prolonged heat or excessive cold. However if frozen, the latex should be thawed slowly. SikaBond® SBR+ should preferably be stirred before use. SikaBond® SBR+ contains sufficient bactericide to preserve the latex under normal storage conditions.
Density	ca. 1.02 kg/ltr

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

All surfaces must be clean, dry and free from dust, grease and other contaminants.

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 latex modified mortars owing to the plasticising effect of the latex. The mix design depends upon thickness and intended use. However, typically mixes for a 12mm topping or screed are as follows:

	Screed	Topping
O.P.C	1	1
Moist sand	3.5	1.75
3mm Washed Granite	0	1.75
SBR+	0.2	0.2 (ie. 10L per 50Kg 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. 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 SBR Bond. Portland cement should be fresh but cool. Cement containing air

set lumps should not be used. Coarse aggregate e.g. Granite chippings. These 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.

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. Once dried use solvents such as white spirit with a coarse wire brush.

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.

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

Consult MSDS for full list of hazards.

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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