

PRODUCT DATA SHEET

SikaLatex® SBR

WATERPROOF GENERAL PURPOSE BONDING AGENT AND MORTAR MIXTURE

PRODUCT DESCRIPTION

SikaLatex® SBR is a latex-based, water-resistant bonding agent and admixture for use in areas subject to humidity, dampness and continuous 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.

USES

- As an admixture for mortar/screeds/renderers.
- As a bonding agent for screeds/renderers.
- As a primer/sealer in tiling applications.
- As a pliability improver for cementitious-based tile adhesive when tiling on wooden/asphalt floors.
- In addition, SikaLatex® 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.
- Improves chemical resistance of concrete.
- Reduced water:cement ratio for equivalent workability.
- Improved frost resistance.
- Freeze thaw stable.

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
Bactericide	Added

PRODUCT INFORMATION

Packaging	5, 10 and 20 litre jerry cans
Shelf Life	12 months in original unopened containers.
Storage Conditions	SikaLatex® SBR is best stored at 5 °C - 25 °C to avoid the possibility of permanent damage occurring due to prolonged heat or excessive cold. However, if frozen the latex should be thawed slowly. SikaLatex® SBR contains sufficient bactericide to preserve the latex under normal storage conditions.
Appearance / Colour	White liquid
Density	ca. 1.02 kg/L
pH-Value	ca. 9

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.

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

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

MIXING

Mixing procedures for topping and screeds containing SikaLatex® SBR are similar to those used to conventional compositions, with gauging water partly replaced by SikaLatex® 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 SikaLatex® SBR, mix for 1 - 3 mins, then slowly add water to the required consistency. NB. Overaddition 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 12 mm topping or screed are as follows:

	<u>Screed</u>	<u>Topping</u>
O.P.C	1	1
Moist sand	3.5	1.75
3mm Washed Granite	0	1.75
SikaLatex® 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.

SELECTION OF MATERIALS

To obtain maximum performance from mixes modified with SikaLatex® 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. Portland Cement, high alumina and sulphate-resisting cements are compatible with SikaLatex® 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 could 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 SikaLatex® 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.

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 exact product data and uses.

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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