

## SikaLatex® SBR

SBR based multipurpose polymer for waterproofing and repair

<b>Product Description</b>	SikaLatex® SBR is a synthetic rubber emulsion which when added to cement slurry/ cement mortar/concrete/grout provides good adhesion and water resistance. It comes in the form of a milky liquid. It is fully soluble in water and is to be added directly to the gauging water of mortar/concrete/ cementitious grout.
<b>Uses</b>	<ul style="list-style-type: none"><li>■ For waterproofing of roof slabs, sunken slabs, basements, water tanks, sunshades etc. in combination with cement</li><li>■ As a bonding agent for uses in repair and plastering</li><li>■ For making polymer mortar for repairs, etc.</li><li>■ Treatment for leaching and saltpetre action</li><li>■ Multipurpose mortar admixture for injection grouts</li></ul>
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Improves elasticity, flexibility, tensile strength of cement and reduces cracking</li><li>■ Makes the mortar waterproof and reduces susceptibility to acids and gases, salt petre action etc.</li><li>■ Mortar with SikaLatex® SBR shows extremely good bonding to bases like concrete, stone, brick etc.</li><li>■ Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrates</li><li>■ SikaLatex® SBR can be diluted with water depending on the type of application</li><li>■ Screed required with Sikacim®/ Sika® Plastocrete Super to protect waterproofing layer</li></ul>

### Product Data

#### Form

**Appearance / Colour** White (milky) liquid

**Packaging** 250g, 500g, 1kg, 5kg, 10kg, 20kg

#### Storage

**Storage Conditions / Shelf Life** 18 months from date of production if stored in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight. Protect from frost.

### Technical Data

**Chemical Base** Styrene butadiene rubber emulsion.

**Density** ~ 1.02 kg/l at 27°C

**Polymer Content** ~ 30.0 % by weight



## System Information

### Application Details

#### Consumption

Application Area	Mixing Ratio	Consumption of diluted SikaLatex® SBR
Waterproofing	SikaLatex® SBR: Water : Cement  1 : 3 : 6	0.075 kg/m <sup>2</sup> per coat (1kg diluted SikaLatex® SBR approximately covers 6-8 m <sup>2</sup> in two coats depending on substrate)
Bonding Coat	SikaLatex® SBR: Water : Cement  1 : 3 : 4	0.05 kg/m <sup>2</sup> per coat
Repair Mortar	SikaLatex® SBR: Water : Cement : Sand  1 : 4 : 10 : 40	0.035 kg/m <sup>2</sup> /mm thickness at Water: Powder ratio of 0.4 ( ½ inch mortar requires approx. 0.44 kg diluted SikaLatex® SBR)
Crack Fill	SikaLatex® SBR: Water  1 : 4	0.015 kg/m <sup>2</sup> /mm thickness at Water: Powder ratio of 0.5
Repair Concrete & Screed	SikaLatex® SBR: Water  1 : 4	10-15% by weight of cement at Water: Powder ratio of 0.5
Injection Grouting	SikaLatex® SBR: Water  1 : 6	3-6 kg/bag of cement

\*usage of OPC is recommended

#### Substrate Quality

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Paint, cement laitance, old coatings and any other contaminants.

#### Substrate Preparation

Cementitious substrates should be pre-saturated surface dry with clean water.

### Application Instructions

#### Mixing

SikaLatex® SBR is to be added to cement/ cement mortar/concrete/grout depending on the type of application as per the table above.

Mixing of diluted SikaLatex® SBR to cement mortar should preferably be done manually by volume as per the table.

#### Application Method / Tools

##### Waterproof Coating/Slurry

Prepare the base as indicated in the above table. Apply the 1<sup>st</sup> coat by brush in order to obtain a thin layer.

Apply the 2<sup>nd</sup> coat after 1<sup>st</sup> coat is dry, approximately 4-6 hrs between two coats.

During application, the mixture needs to be continuously stirred to prevent the cement particles from settling.

Prepared material must be used within 20- 30 minutes depending upon temperature humidity etc. The Waterproofing coating must be protected by screed on top for longer life.

Standard coating system can be further reinforced by placing Sika® Fab 1 fabric layer in between 1<sup>st</sup> and the 2<sup>nd</sup> coat.

##### Bonding Coat

Prepare the base as indicated in the above table. Apply a single coat in order to obtain a thin layer on the concrete substrate.

When the coating is still fresh and tacky apply the repair polymer mortar or screed.

### Repair Mortar

Mix SikaLatex® SBR with water, cement & sand in the proportion as mentioned in the chart above. Prepare the mortar with this gauging water. Cured plaster with SikaLatex® SBR would harden faster and would be watertight. This type of polymer mortar should be used for all repair jobs for optimum performance.

Standard mortar system can be further reinforced by placing Sika® Fab 1 fabric layer in between 1<sup>st</sup> and the 2<sup>nd</sup> coat.

### Crack Fill

Prepare the base as mentioned in the chart above and fill it in the cracks of concrete.

### Repair Concrete & Screed

SikaLatex® SBR can be mixed in proportion as mentioned in the chart above and applied on the Concrete substrate.

### Injection Grouting

SikaLatex® SBR can be mixed in proportion as mentioned in the chart above and then this slurry formed can be injected in the nozzles with the help of a suitable Injection Pump.

<b>Cleaning of Tools</b>	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.
<b>Waiting Time</b>	As waterproof coating 2-6 hours depending on temperature and humidity
<b>Notes on Application / Limitations</b>	Avoid application in direct sun and/or strong wind. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness.  For waterproofing or damp proofing application, always use at least 2 coats. In areas of severe water penetration, three coats might be required.  Protect freshly applied material from rain etc.
<b>Curing Details</b>	
<b>Curing Treatment</b>	3-5 days with wet burlap/ gunny bag/ hessian cloth. Not to be ponded with water.
<b>Value Base</b>	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.
<b>Health and Safety Information</b>	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
<b>Legal Notes</b>	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.

