

## PRODUCT DATA SHEET

# SikaLatex<sup>®</sup> SBR BD

Superior performance SBR based multipurpose polymer for waterproofing, repair and bonding

### DESCRIPTION

SikaLatex<sup>®</sup> SBR BD is a superior modified styrene butadiene emulsion to be mixed with cement slurry, cement mortar, concrete or cementitious grout for improved adhesion and water resistance properties. It is fully soluble in water and is added directly to the gauging water of slurry, mortar, concrete or grout.

### USES

SikaLatex<sup>®</sup> SBR BD is used as bonding agent, waterproof coating and site-mix mortar admixture for the following applications:

- Bonding of rendering and coating layers
- Bonding between successive concrete casts
- Cement grouting and screeds
- Polymer modified repair mortars
- Masonry mortars
- Renders
- Tile fixing and panelling
- Waterproof plastering
- Waterproofing of roof slabs, sunken slabs, basements, retaining walls, water tanks, sunshades etc
- Treatment for leaching and saltpetre action

### FEATURES

- Multipurpose 5-in-1 application
- Makes the mortar waterproof
- Improves resistance to salt permeation
- Improves toughness and flexibility and reduces cracking
- Good adhesion to substrates like concrete, stone, brick etc.
- Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrates
- Dilute with water up to 6 times depending on the type of application
- Reduces surface dusting of concrete
- Improves chemical resistance of concrete
- Improves frost resistance
- Good resistance to water and water vapour
- Reduces water cement ratio for equivalent workability
- Mixes may be applied in much thinner sections

### PRODUCT INFORMATION

<b>Composition</b>	Styrene butadiene rubber (latex) emulsion
<b>Packaging</b>	1 kg, 5 kg, 10 kg, 20 kg container
<b>Appearance and colour</b>	Liquid / Milky white
<b>Shelf life</b>	18 months from date of production
<b>Storage conditions</b>	The product must be stored properly in undamaged and unopened original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from frost and direct sunlight.
<b>Density</b>	~1.02 kg/l
<b>pH-Value</b>	8 ± 1

# TECHNICAL INFORMATION

Tensile adhesion strength  $\geq 1.5 \text{ N/mm}^2$  (concrete failure) (EN 1542)

## APPLICATION INFORMATION

Consumption	Application area	Mixing ratio (by weight)	Consumption of mixture	Consumption of SikaLatex® SBR BD
	Waterproof coating	SikaLatex® SBR BD : Water : Cement = 1 : 4 : 8	~ 900 g/m <sup>2</sup> in 2 coats	~ 70 g/m <sup>2</sup> in 2 coats
	Bonding coat	SikaLatex® SBR BD : Water : Cement = 1 : 4 : 8	~ 350 g/m <sup>2</sup> in single coat	~ 30 g/m <sup>2</sup>
	Polymer mortar or Waterproof plaster	SikaLatex® SBR BD : Water : Cement : Sand = 1 : 4 : 8 : 32	~ 2000 kg/m <sup>3</sup>	~ 45 g/m <sup>2</sup> per mm thickness
	Polymer concrete or Screed	SikaLatex® SBR BD : Water = 1 : 5 (Cement, sand, aggregate as per grade)	~ 2300 kg/m <sup>3</sup>	~ 10 % by weight of cement
	Polymer cement injection grout	SikaLatex® SBR BD : Water = 1 : 7 (Cement, sand, aggregate as per grade)	~ 1700 kg/m <sup>3</sup>	~ 7 % by weight of cement

### NOTE:

The above stated consumption depends on substrate condition, porosity, level, application skills and mixing ratios. Mix consistency may change with the quality of sand and cement, hence gauging water may be adjusted slightly based on site conditions. SikaLatex® SBR BD may also be used for applications such as masonry jointing or crack filling, etc. Please consult Sika Technical Services for consumption and mixing ratio information. Additional plasticising admixture may be necessary for concrete, screed or grouting applications to maintain desired workability.

Ambient air temperature +5 °C min. / +40 °C max.

Substrate temperature +5 °C min. / +40 °C max.

Application time ~20 to 30 minutes at +30 °C when used as coating, mortar or bonding agent

Curing treatment

- Avoid rapid evaporation of the water from mortars prepared with SikaLatex® SBR BD. Cover the surface with a polyethylene film, use wet burlap, gunny bag or hessian cloth or water misting or apply Sika Antisol® curing compound.
- Cure for minimum 3–5 days. DO NOT pond with water before 5 days of curing.
- During adverse weather conditions (high temperatures, low relative humidity, wind, sun etc.) take particular care with curing treatment.

## BASIS OF PRODUCT DATA

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.

## IMPORTANT CONSIDERATIONS

Avoid application in direct sun and/or strong wind. Protect freshly applied material from rain etc. During application, the mixture of SikaLatex® SBR BD and cement needs to be continuously stirred to prevent the cement particles from settling.

## 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

The substrate shall be sound, clean, homogeneous, free from oils and grease.

### SUBSTRATE PREPARATION

- Dust, loose or friable particles, rust, scale, paint, cement laitance, old coatings and any other contaminants or deleterious materials which reduces bond or contributes to corrosion shall be removed by suitable means before application.
- Smooth substrates must be mechanically roughened by scabbling, needle gun or grit blasting to provide an adequate key.
- Cementitious substrates should be pre-saturated surface dry (SSD) with clean water at least 2 hours before any application.

### MIXING

1. Mix SikaLatex® SBR BD with the correct amount of water to produce a gauging solution.
2. Pour part of the gauging solution into a suitable mixing container.
3. While stirring slowly, add the cement or cementsand mix to the gauging solution and mix thoroughly until a smooth, uniform and lump-free mix is achieved.
4. Within the mixing time add additional gauging solution to adjust to the desired consistency. Mix either by hand or with a low speed drill for not more than 2 minutes.

### NOTE:

When a concrete-mixer is used, pour the mortar as soon as its consistency is cohesive. Do not run the mixer too long.

## APPLICATION

### Waterproofing coating

1. Thoroughly pre-wet the prepared substrate. Keep the surface wet and do not allow to dry.
2. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.
3. Prepare the waterproofing coating as indicated in the consumption table. Using a stiff clean brush spread the coating vigorously onto the substrate, forming a thin layer.
4. After 2 to 6 hours, apply the second coat in crosswise direction to first coat. Standard coating system can be further reinforced by placing glass fabric layer Sika® Fabric-50 in between first and second coat.
5. Protect with screed on top for longer life.

### NOTE:

In areas of severe water penetration, three coats might be required.

### Bonding coat

#### IMPORTANT

Never use pure SikaLatex® SBR BD or SikaLatex® SBR BD-water mix directly onto the substrate as bonding agent, always add cement and sand to the mix.

1. Thoroughly pre-wet the prepared substrate. Keep the surface wet and do not allow to dry.
2. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.
3. Prepare the bonding coat as indicated in the consumption table. Using a stiff clean brush work the mix vigorously onto the substrate, forming a thin layer filling all unevenness, pits and pores.
4. When the bond coat is still fresh and sticky, apply the mortar or concrete. Vibrate carefully to achieve satisfactory interpenetration of mortar and concrete.

### Polymer mortar or Waterproof plaster

1. Prepare the polymer mortar as indicated in the consumption table.
2. Apply a thin layer of polymer mortar as given above.
3. Apply the mortar onto the surface in a layer of max. 20 mm thickness.
4. Cured mortar or plaster with SikaLatex® SBR BD would harden faster and would be watertight. For higher thickness, apply in multiple layers at intervals of 12 hours.

### Polymer concrete or Screed

1. Thoroughly pre-wet the prepared substrate. Keep the surface wet and do not allow to dry.
2. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and pits shall not contain water.
3. Prepare the bonding coat as indicated in the consumption table. Using a stiff clean brush work the mix vigorously onto the substrate, forming a thin layer filling all unevenness, pits and pores.
4. Prepare the concrete or screed as indicated in the consumption table. When the bond coat is still

fresh and sticky, apply the concrete. Vibrate carefully to achieve satisfactory interpenetration concrete or screed.

### **Polymer cement injection grout**

1. Open the crack lines to form a V groove of ~10 mm.
2. Seal the cracks with Sika MonoTop®-108 Water Plug IN mortar or Sikadur®-31 IN.
3. Fix appropriate nozzles spaced at regular intervals along groove length with Sika MonoTop®-108 Water Plug IN mortar or Sikadur®-31 IN.
4. Prepare a cement grout slurry as indicated in the consumption table.
5. Inject the grout as per standard grouting practice.

### **CLEANING OF EQUIPMENT**

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be removed mechanically.

### **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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#### **Product Data Sheet**

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