

PRODUCT DATA SHEET

SikaLatex® SBR

SBR BASED MULTIPURPOSE POLYMER FOR WATERPROOFING AND REPAIR

DESCRIPTION

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 slurry / mortar / concrete / grout.

USES

SikaLatex® SBR is a high quality emulsion that substantially increases the quality of cement slurry / cement mortar / concrete / cementitious grout.

The scope of application are as follows:

- As a bonding agent for uses in repair and plastering
- Bonds rendering and coating layers
- Bonding between successive concrete casts by incorporating SikaLatex® SBR into bonding mortar
- For making polymer mortar for repairs
- For waterproofing of roof slabs, sunken slabs, basements, retaining walls, water tanks, sunshades etc. in combination with cement
- Ensures high wear resistance against erosion
- Long life and watertight masonry jointing
- Used as modifier in bonding mortar for tiles & paneling
- Multipurpose admixture for cementitious injection grouting into cracks or porous concrete works
- Treatment for leaching and saltpetre action

CHARACTERISTICS / ADVANTAGES

- Adhesion to most substrates (concrete, stone, brick, ferrous metals, glass, ceramic tiles)
- Improves elasticity, flexibility and tensile strength of cement and reduces cracking in mortar and concrete
- Economical, easy to use and non-toxic
- Inhibits cracking, improves surface hardening, limits wear and dust production
- Makes the mortar waterproof and reduces susceptibility to acids and greases, salt petre action, etc
- Mortar with SikaLatex® SBR shows extremely good bonding to bases like concrete, stone, brick etc
- Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrates
- SikaLatex® SBR can be diluted with water (1 : 4 – 6) depending on the type of application
- Screed required with Sikacim® / Sika® Plastocrete Super to protect waterproofing layer
- Standard coating system can be further reinforced by placing glass fibre reinforcement Sika® Fabric-50 in between first and the second coat

PRODUCT INFORMATION

Chemical Base	Styrene butadiene rubber emulsion
Packaging	250g, 500g, 1kg, 5kg, 10kg, 20kg
Appearance / Colour	White milky liquid
Shelf Life	18 months from date of production

Storage Conditions

Store in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight. Protect from frost.

Density ~ 1.02 kg/L at +27 °C

pH-Value 8 ± 1

TECHNICAL INFORMATION

Tensile Adhesion Strength ≥ 1.5 N/mm² (concrete failure) (EN 1542)

APPLICATION INFORMATION

Consumption	Application area	Mixing ratio (by volume)	Consumption of mixture	Consumption of SikaLatex® SBR
	Waterproof coating	SikaLatex® SBR : Water : Cement = 1 : 4 : 8	~ 500 g/m ² in 2 coats	~ 40–50 g/m ² in 2 coats
	Bonding coat	SikaLatex® SBR : Water : Cement = 1 : 4 : 8	~ 300 g/m ² in single coat	~ 25 g/m ²
	Polymer mortar or Waterproof plaster	SikaLatex® SBR : Water : Cement : Sand = 1 : 4 : 10 : 40	~ 2000 kg/m ³	~ 35 g/m ² /mm
	Masonry jointing	SikaLatex® SBR : Water : Cement : Sand = 1 : 4 : 10 : 60	~ 2000 kg/m ³	~ 250 g/m ² for 10 mm thickness
	Crack filling	SikaLatex® SBR : Water = 1 : 4 and Cement : Fine Sand / Marble dust = 1 : 3	~ 1800 kg/m ³	~ 2 g for 8–10 mm groove
	Polymer concrete & screed	SikaLatex® SBR : Water = 1 : 4 and Cement : Sand : Aggregate = 1 : 1.5 : 3	~ 2200 kg/m ³	~ 35 kg/m ³
	Injection grouting	SikaLatex® SBR : Water = 1 : 6		3–6% by weight of cement

The above stated consumption depends on substrate condition, porosity, level, application skills and mixing ratios.

Please consult Sika® Technical Service team for consumption and mixing ratio information for other applications not covered in consumption table.

APPLICATION INSTRUCTIONS**SUBSTRATE QUALITY / PRE-TREATMENT**

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

De-laminated, weak, damaged and deteriorated substrate 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 with clean water.

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

When a waterproofing slurry or bonding coat is to be prepared, cement is to be added in the polymer for getting consistent mixture.

APPLICATION METHOD / TOOLS

Waterproof coating

Prepare the slurry coat as indicated in the consumption table. Apply the 1st coat by brush in order to obtain a thin layer. Apply the 2nd coat after 1st 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 glass reinforcement Sika® Fabric-50 layer in between 1st and the 2nd coat.

Bonding coat

Prepare the bonding coat as indicated in the consumption table. Apply the single coat of bonding agent to obtain a thin layer. When the bond coat is still fresh and sticky, apply the mortar or concrete, approximately after about an hour. Vibrate carefully to achieve satisfactory interpenetration of mortar and concrete. During application the mixture of SikaLatex® SBR and cement 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.

Polymer mortar or Waterproof plaster

Prepare the polymer mortar as indicated in the consumption table. Apply a thin layer of bonding coat as given above. Apply the mortar onto the surface in a layer of 20-30 mm thickness. This type of polymer mortar should be used for all repair jobs for optimum performance. Cured plaster with SikaLatex® SBR would harden faster and would be watertight. For higher thickness, apply in multiple layers at intervals of 12 hours.

Masonry jointing

Prepare the jointing mortar as indicated in the consumption table. Apply a thin layer of bonding coat as given above. Apply the mortar onto the surface in a layer of 20-25 mm thickness and shape the adhesive soon after the placement of next level masonry.

Crack filling

Open the crack lines to form a V groove of 8-10 mm. Prepare the crack filler as mentioned in the consumption table to make a putty by using marble dust

(preferable) or pasty mortar with fine sand. Apply a thin layer of bonding coat as given above and seal the cracks with prepared putty.

Polymer concrete & screed

SikaLatex® SBR can be mixed in proportion as mentioned in the consumption table. Make a polymer concrete or screed as per desired consistency required. Apply a thin layer of bonding coat as given above. Place the concrete or screed using suitable tools using standard industry practice.

Injection grouting

Open the crack lines into V groove and fix galvanised iron nozzles spaced at regular intervals of 0.5 to 1.5 mm c/c along groove length with Sika® Hydroplug mortar or Sikadur®-31 IN. Prepare a cement grout slurry admixed with SikaLatex® SBR in proportion as mentioned in the consumption table. Inject the fluid as per normal practice.

CURING TREATMENT

It is important to avoid rapid evaporation of the SikaLatex® SBR for Mortars. It is recommended to cover the surface with a polyethylene film, use wet burlap/gunny bag/ hessian cloth or water misting or apply Sika Antisol® curing compound. Cure for 3-5 days. Not to be ponded with water. During adverse weather conditions (high temperatures, low relative humidity, wind, sun etc.) take particular care with curing treatment.

CLEANING OF TOOLS

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

LIMITATIONS

- 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.

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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related 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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