

PRODUCT DATA SHEET

SikaLatex[®] Super

Specialised SBR based multipurpose polymer for waterproofing, repair and bonding

DESCRIPTION

SikaLatex[®] Super is a specialised 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[®] Super 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

CHARACTERISTICS / ADVANTAGES

- Multipurpose polymer and admixture
- Good adhesion to most substrates
- Increases adhesion, flexural and tensile strength
- Improves abrasion resistance, limits wear and dust production
- Reduces cracking in mortar and concrete
- Reduces water permeability
- Increases chemical resistance
- Non-toxic, non-corrosive and non-flammable
- Reduces viscosity of cement and improves bond
- Easy to use
- Does not re-emulsify even in high alkaline conditions
- Long life and watertight masonry jointing

PRODUCT INFORMATION

Chemical base	Styrene butadiene rubber emulsion
Packaging	1 kg, 5 kg, 10 kg, 20 kg, 50 kg container
Shelf life	18 months from date of production
Storage conditions	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.
Appearance / Colour	Liquid / Milky white
Specific gravity	~1.02
pH-value	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	Consumption of mixture	Consumption of SikaLatex® Super
	Waterproofing coating	SikaLatex® Super : Water : Cement = 1 : 1.5 : 5	~600 g/m ² per coat	~80 g/m ² per coat
	Bonding coat	SikaLatex® Super : Water : Cement = 1 : 1 : 4	~300 g/m ² in single coat	~50 g/m ²
	Repair mortar	SikaLatex® Super : Water : Cement : Sand = 1 : 2 : 6 : 18	~1800 kg/m ³	~70 g/m ² per mm thickness

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® Super may also be used for applications such as injection grouting, masonry jointing, polymer concrete or screed, crack filling, etc. Please consult Sika Technical Services for consumption and mixing ratio information.

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

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.

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

- Mix SikaLatex® Super with the correct amount of water to produce a gauging solution.
- Pour part of the gauging solution into a suitable mixing container.
- While stirring slowly, add the cement or cement-sand mix to the gauging solution and mix thoroughly until a smooth, uniform and lump-free mix is achieved.
- 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

IMPORTANT

Avoid application in direct sun and/or strong wind.

IMPORTANT

Protect freshly applied material from rain etc.

IMPORTANT

During application, the mixture of SikaLatex® Super and cement needs to be continuously stirred to prevent the cement particles from settling.

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® Super or SikaLatex® Super-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® Super would harden faster and would be watertight. For higher thickness, apply in multiple layers at intervals of 12 hours.

CURING TREATMENT

- Avoid rapid evaporation of the water from mortars prepared with SikaLatex® Super. Cover the surface with a polyethylene film, use wet burlap, gunny bag or hessian cloth or water misting or apply Sika Anti-sol® 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.

CLEANING OF TOOLS

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

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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Product Data Sheet

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