

PRODUCT DATA SHEET

SikaLatex®

Water resistant bonding agent and mortar admixture

DESCRIPTION

SikaLatex® is a synthetic rubber emulsion that is used as admixture for cementitious bonding bridges and high quality site-mix mortars where good adhesion and water resistance are required.

USES

SikaLatex® is used as bonding agent and site-mix mortar admixture for the following applications:

- Grouts and screeds
- Concrete repair mortars
- Patch repair mortars
- Mansory mortars
- Renders
- Tile fixing mortars or adhesives

CHARACTERISTICS / ADVANTAGES

The main advantages of SikaLatex® are:

- Increased adhesion
- Reduced shrinkage and cracking
- Increased abrasion resistance
- Improved chemical resistance
- Reduced permeability
- Improved workability
- User friendly
- Suitable on most common construction substrates
- Non-toxic
- Non-corrosive
- Greater flexibility

PRODUCT INFORMATION

Composition	Styrene butadiene emulsion
Packaging	<ul style="list-style-type: none"> ▪ 1000 litres IBC ▪ 200 litres drum ▪ 5 and 20 litres pails
Shelf life	12 months
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions at temperatures between 5 °C and 30 °C. Protect from direct sunlight, frost and contamination.
Appearance and colour	White liquid
Density	1.01 ± 0.03 kg/lit
pH-Value	10.4 ± 1
Total chloride ion content	≤ 0.1 %

TECHNICAL INFORMATION

Specific advice

Aggregates should be sharp, well graded and thoroughly washed. Sand particle sizes should correspond to the thickness of mortar to be applied and required surface finish.

Thickness / Application	Grading
<2 mm	0 – 0.5mm
2 – 10 mm	0 – 1.0mm
10 – 25 mm	0 – 2.3mm
>25 mm	0 – 5.0mm

APPLICATION INFORMATION

Recommended dosage

For all applications apart from sprayed on renders, a bonding bridge should be brushed into the prepared surface.

1. Bonding Bridge

Cement : Sand : Liquid (part SikaLatex® + part water) = 1:1:1 (by volume) or
Cement : Sand : Liquid (part SikaLatex® + part water) = 1.5:2:1 (by weight)

Apply the slurry onto pre-wetted substrate in 1-2mm thickness and apply subsequent mortar renders immediately (wet onto wet application).

Consumption: 1 litre of SikalateX covers 4-6 m² area (depends surface roughness)

2. Repair Mortars

Portland Cement	50 kg	50 kg	50 kg
Sand	125 kg (+25 kg)	125 kg (+25 kg)	125 kg
SikaLatex®	7 lit	9 lit	7-9 lit
Water	12 lit	9 lit	9 lit
Admixture	-	-	2 lit SikaRapid-2
Yield	Approx. 90 lit	Approx. 90 lit	Approx. 100 lit
Remarks	Up to 25 kg of Sikadur Aggregates should be added where the thickness per layer exceeds 12mm		Apply within 10-20 minutes at 25°C.

3. Flooring, Adhesive and Grouting mortars

Mix / Application	Heavy duty floor, patch repair mortar for industrial floors	Adhesive mortar for bonding tiles, slip bricks, coping stones, kerbs etc	SBR modified grout, sealing cracks and stabilising un-bonded screeds
Portland Cement	50 kg	50 kg	50 kg
Sand	75 kg	125 kg	125 kg
Aggregate	75 kg (2.3-5mm)	7 – 9 lit	-
SikaLatex®	4 – 6 lit	9 lit	7 – 9 lit
Water	12 lit	9 lit	9 lit
Others	-	-	0.25kg Intraplast-Z
Yield	Approx. 100 lit	Approx. 90 lit	Approx. 95 lit
Remarks	Screeds with increasing thickness require a lower consumption of SikaLatex®	For thin sections use zone 4 sand. Keep water content at minimum	May be pumped. Use promptly. Wherever possible saturate surfaces

Note

- The above mixes are for guidance and based on the use of sharp, well graded aggregates and dry sand. Trials are recommended.
- For Optimum results, always ensure that the correct SikaLatex® : Water ratio is used as shown in the tables above.

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Ambient air temperature

Min. 5°C – Max. 35°C

Substrate temperature

Min. 5°C – Max. 35°C

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

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

Renderings and floor toppings should be allowed to cure correctly. Avoid excessive air-entrainment through over mixing.

Normal concrete mixers are not suitable for the SikaLatex® mortars; the higher performance forced action paddle type mixers are recommended.

Always keep the water:cement ratio to a minimum to enable correct working and compaction. A w/c ratio of less than 0.4 is advisable.

Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of SikaLatex® mortars by the use of ploythene, damp hessian or concrete curing compounds.

Maximum layer thickness per application should not exceed 40mm. Ensure hardened layers are mechanically "keyed", wetted and grouted.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by cementitious materials. De-laminated, weak, damaged and deteriorated substrate shall be removed by suitable means before application.

Rust, scale, dust and other loose and deleterious materials which reduces bond or contributes to corrosion shall be removed.

MIXING

Mix SikaLatex® 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-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.

APPLICATION METHOD / TOOLS

Bonding Brigde

Thoroughly pre-wet the prepared substrate a recommended 2 hours before application. Keep the surface wet and do not allow to dry. 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. Using a stiff clean brush work the mix vigorously onto the substrate, forming a thin layer filling all unevenness, pits and pores.

Always apply following layer of mortar "wet on wet" onto bonding bridge.

Mortar

SikaLatex® is generally added to the clean mixing water within the range 1:1 to 1:4. For all applications, apart from sprayed on renders, a bonding coat of SikaLatex® water 1:1 mixed with fresh cement, should be brushed into the prepared surface. Subsequently, mortar application must be carried out whilst the bonding coat is still wet.

CLEANING OF EQUIPMENT

Remove uncured SikaLatex® from tools and equipment with water. 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.

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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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