BUILDING TRUST

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.

USES

SikaLatex® is used as bonding agent and site-mix mortar admixture for the following applications:
- Grouts and screeds
- Patch repair mortars
- Masonry mortars
- Renders

CHARACTERISTICS / ADVANTAGES

The main advantages of SikaLatex® are:
- Increased adhesion
- Reduced shrinkage and cracking
- Increased abrasion resistance
- Reduced permeability
- Improved workability
- Easy to use

PRODUCT INFORMATION

Chemical Base	Styrene butadiene emulsion
Packaging	1.2kg/pail,4kg/pail,18kg/pail,20kg/pail,200kg/drum
Appearance / Colour	White liquid
Shelf Life	12 months
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions. Protect from direct sunlight, frost and contamination.
Density	~ 1.0 kg/l (Solid Content Approx. 47 %)
Total Chloride Ion Content	≤ 0.1 %

APPLICATION INFORMATION

Recommended Dosage

Use as Bonding Coat

Mix 1 part of SikaLatex® to 1 part of fresh Portland cement to produce a stiff bonding slurry.

Coverage: approx. 4–6 m^2/kg of SikaLatex® (actual consumption depend on surface profile).

Use as Spatterdash

	Mixing Ratio (by volume)
Cement : Sand	1 : 2
Gauging liquid Water : SikaLatex®	~2.5-4.0 : 1

** moisture of sand will greatly affect amount of water added.*
** adjust the quantity of gauging liquid add into the cement sand mixture untill desire condition for spatter dash.*

Use as Mortar Additive

Typical Mix Designs	Mix 1	Mix 2
Application	Render/Screed, Repair mortar	High performance render and repair mortar
Portland Cement (kg)	50	50
Sand (kg)	125*	125*
Aggregate (kg)	-	-
SikaLatex® (kg)	7	9
Water (litre)	Up to 12	Up to 9
Typical Yield	0.09 m^3	0.09 m^3
Coverage	~ 1.29 m^2/kg/10 mm	~ 1 m^2/kg/10 mm

Use as Special Application

Typical Mix Design	Mix 3
Application	Heavy duty floor screed
Portland Cement (kg)	50
Sand (kg)	75**
Aggregate (kg)	75 (gravel of 3–6mm)
SikaLatex® (kg)	6
Water (litre)	12-20 (according to the mixing status)
Typical Yield	0.1 m^3
Coverage	~ 1.67 m^2/kg/10 mm

Note : Ensure water contents of mixes are kept as low as possible.
**Mix 1 and Mix 2 : If thickness > 12 mm, an additional 25 kg sand should be added.*
***Mix 3 : Semi-dry screeds > 25 mm, require only 4 kg SikaLatex®.*

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.

LIMITATIONS

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

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 Material Safety Data Sheet (MSDS) 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 Bridge
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.

Spatterdash
Spread mixed spatterdash material onto pre-wetted surface.

Mortar
Mix cement and sand first, then add SikaLatex® diluted with water (refer to the Mix Design Guide). Mix either by hand or with low speed drill for no more than 2 minutes.
Mortar topping should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of SikaLatex® mortars, by the use of polythene or concrete curing compounds.
Maximum thickness is 40 mm/layer.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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