

# PRODUCT DATA SHEET

## SikaLatex® KE

Water Resistant Bonding Agent and Mortar Admixture

### DESCRIPTION

SikaLatex® KE is a synthetic rubber emulsion that is used as admixture for cementitious bonding bridges and high quality site-mix mortars. Suitable for use in hot and tropical climatic conditions.

### USES

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

- Grouts and screeds
- Patch repair mortars
- Masonry mortars
- Renders
- Tile adhesives

### CHARACTERISTICS / ADVANTAGES

The main advantages of SikaLatex® KE are:

- Increased adhesion
- Reduced shrinkage and cracking
- Increased abrasion resistance
- Reduced permeability
- Improved workability
- User friendly
- Suitable on most common construction substrates

### PRODUCT INFORMATION

<b>Composition</b>	Styrene butadiene emulsion
<b>Packaging</b>	20 L cans and 200 L drums and IBCs depending on request.
<b>Shelf life</b>	12 Months
<b>Storage conditions</b>	Store properly in undamaged original sealed packaging, in dry cool conditions at temperatures between 5 °C and 30 °C. Protect from direct sunlight, contamination and moisture
<b>Appearance / Colour</b>	White liquid
<b>Density</b>	~1.03 kg/l

Total chloride ion content ≤ 0.1 %

### Recommended dosage

#### ▪ Bonding Bridge

Cement : Quartz Sand : Liquid (1 part SikaLatex® KE + 1 part Water) = 1 : 1 : 1 (by volume) or,

Cement : Quartz Sand : Liquid (1 part SikaLatex® KE + 1 part Water) = 1.5 : 2 : 1 (by weight)

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

#### ▪ Repair Mortars

Portland Cement	50 kg	50 kg
Quartz Sand	125 kg (+25 kg)	125 kg (+25 kg)
SikaLatex® KE	7 L	9 L
Water	12 L	9 L
Yield	Approx. 90 L	Approx. 90 L
Remarks	Up to 25 kg of sikadur aggregates should be added where the thickness per layer exceeds 12 mm	Up to 25 kg of sikadur aggregates should be added where the thickness per layer exceeds 12 mm

#### ▪ Adhesive Motors

Mix /Application	Adhesive mortar for bonding tiles, slip bricks, coping stones, kerbs, etc
Portland Cement	50 Kg
Quartz Sand	125 kg
SikaLatex® KE	9 L
Water	9 L
Yield	Approx. 90 L
	For thin sections use Sikadur Aggregates, size dependant on layer thickness. Keep water content at a minimum

The above mixes are for guidance only and based on the use of sharp, well graded aggregates and dry sand. Trial mixes must be performed to establish the exact dosage rate required. For optimum results, always ensure that the correct SikaLatex® KE: Water ratio is used. Depending on the application and performance required, Sika Latex® KE may be added to the clean mixing water within the range of 1:1 to 1:4. For all applications apart from sprayed on renders, a bonding bridge should be brushed into the prepared surface.

#### ▪ Aggregate Grading

Layer Thickness	Aggregate Grading	Sika Aggregate
< 2 mm	0.1 - 0.5 mm	Sikadur®-505
2 - 10 mm	0.1 - 1.2 mm	Sikadur®-506
10 - 25 mm	0.1 - 2.3 mm	On request
>25 mm	0.1 - 5.0 mm	On request

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

## 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® KE or SikaLatex® KE-water mix directly onto the substrate as bonding bridge, always add cement and sand to the mix.
- The standard rules of good practice for production and placing of bonding bridge, repair and adhesive mortars must be observed when using SikaLatex® KE. Refer to relevant standards.
- Fresh applied mortar must be cured properly especially at high temperatures in order to prevent plastic

and drying shrinkage.

- Use Sika® Antisol® products as a curing agent or apply wet hessian.
- Higher dosages can be used depending on the mix design, raw materials, climatic conditions and mortar requirements. Trial mixes must be performed to establish the exact dosage rate required.

## 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

The substrate shall be thoroughly clean, rough, free from dust, loose material, surface contamination. Delaminated, 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® KE 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 cementsand 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

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 example 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.

## 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.

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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.

SikaLatexKE-en-KE-(10-2022)-1-1.pdf

#### Product Data Sheet

SikaLatex® KE  
October 2022, Version 01.01  
020301010010000359