

## PRODUCT DATA SHEET

## SikaLatex®

## WATER RESISTANT BONDING AGENT AND MORTAR ADMIXTURE

## DESCRIPTION

SikaLatex® is an aqueous synthetic resin emulsion in the form of a concentrated milky liquid. Perfectly miscible, it can be added directly to the mixing water of cement mortars.

## USES

**Renders and screeds**

- Bonding slip for cement plasters and screeds.
- Waterproof renders for freshwater and seawater tanks and pools.
- Highly wear-resistant screeds even in the presence of water: sills under valves, slabs subject to erosive forces.

**Grouting**

- Durable, watertight masonry joints.
- Joints for precast slabs and panels.

**Reprofiling and repairs**

- Reprofiling and repair of concrete spalling,
- Reinforced or prestressed concrete.

**Roof finishing work**

- Ridges and crests on ridge tiles
- Masonry render joints and edge flashings.
- Renderings for stumps and flashings.

**Bonding and hardening of plasters.**

- Slurry bonding in accordance with DTU 25.1.
- Production of hard, waterproof plasters.
- Resumption of concreting.
- Resumptions between successive concrete pours by incorporating SikaLatex® in a bonding mortar.

## FEATURES

The main advantages of SikaLatex® are:

- Increased mortar adhesion on all substrates, even smooth ones (concrete, stone, brick, ferrous metals, glass and ceramics).
  - Workability: makes mortar plastic and easy to apply.
  - Increases tensile strength
  - Reduced shrinkage and cracking
  - Improved waterproofing and surface hardness
  - Reduced wear and dusting
  - Compatibility with all cements, lime and plaster
- SikaLatex® retains its qualities, even in damp or submerged environments.

## PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"><li>▪ 1-liter, 5-liter and 20-liter drums.</li><li>▪ 210-liter barrel.</li></ul>
<b>Appearance and colour</b>	White milky liquid
<b>Shelf life</b>	12 months when stored away from frost and excessive heat.
<b>Storage conditions</b>	Store properly in undamaged original sealed packaging, protected from excessive heat, frost and humidity.
<b>Density</b>	1,01kg/l (+/- 0,01)

## APPLICATION INFORMATION

<b>Consumption</b>	As a primer: 0.12 L / m <sup>2</sup> / mm thickness. As mortar: 0.6 L / m <sup>2</sup> / cm thickness.
<b>Ambient air temperature</b>	Do not use below +5°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

- SikaLatex® must not be added undiluted to dry cement.
- Always make sure to use the minimum volume of water at the start of mixing, then adjust the amount of water at the end of mixing to obtain the desired consistency.

## 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 / 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.

- When using SikaLatex® as a mortar and render additive and only for these applications, substrates will be thoroughly moistened with water but not dripping.
- When using SikaLatex® as an adhesion primer, substrates must be dry and isolated from any risk of capillary ascent.
- When using SikaLatex® as a curing product, it must be sprayed onto fresh concrete.

### MIXING

#### Preparation of SikaLatex® solution

- 1 volume of SikaLatex®
- 2 volumes of water.

#### Preparation of SikaLatex® slip

- 1 volume of cement.
- 1 volume sand.

Blend to a creamy consistency with the SikaLatex® solution.

#### Preparation of SikaLatex® mortar

- 1 volume cement.
- 2 volumes 0-3 sand.

Mix to desired consistency with SikaLatex® solution.

### MIXING METHOD

- By hand like ordinary mortar.
- With a concrete mixer or mixer pour the mortar as soon as it is homogeneous to avoid prolonged mixing.
- Mortar can be accelerated by adding 0.5 to 1 liter of DROSPRINT (see technical leaflet 12.70) per 35 kg bag of cement, depending on temperature and desired effect.

### APPLICATION METHOD / TOOLS

#### Renderers

To obtain good rendering adhesion on rough or smooth concrete and on all types of masonry:

- After preparing the substrate, make a slip using SikaLatex® slip made with coarse-grained sand to obtain a rough bonding surface.
- Allow the slip to set (hard to the fingernail) before coating the wall
- Apply the actual render, level with a ruler, keep the surface rough
- Apply finishing coat

#### Screeds

For good adhesion of screeds :

- After preparing the substrate, spread SikaLatex® slip in a thin layer a few millimeters thick with a road sweeper (use the same sand),
- On this still fresh, sticky slip, execute the screed itself.

To obtain a screed with good wear resistance and low sensitivity to the action of oils and greases:

- Proceed as above for the slip,
- On this still fresh and sticky slip, make a screed with SikaLatex® mortar mixed with the following special solution :1 volume of SikaLatex®, 3 volumes of water,
- Protect against desiccation by spraying the screed with SikaLatex® solution as soon as the mortar turns matt, then moistening the screed after 24 hours

#### Masonry joints

To create long-lasting visible joints, proceed as follows:

- If necessary, backfill horizontal and vertical joints to a depth of a few centimetres,
- Wash them with a pressure water jet.
- Fill joints that are still wet with SikaLatex® mortar, mixed fairly firmly, to achieve good adhesion and improved joint waterproofing.
- Avoid protruding or excessively deep joints (DTU 20.1).

#### Resurfacing – Repairs

For solid, clean repairs:

- After preparing the substrate, make a firm mix of SikaLatex® mortar with fairly fine sand
- Impregnate the area to be repaired with SikaLatex® solution

#### PRODUCT DATA SHEET

SikaLatex®  
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- Before this impregnation has dried, apply and compact the SikaLatex® mortar
- Immediately finish levelling, re-profiling edges, straightening re-fills

Holes left by formwork spacer pins will be effectively and permanently sealed with SikaLatex® mortar.

#### **Roof finishing**

- After preparing the substrate apply SikaLatex® mortar in the same way as usual mortar.
- Protect from desiccation by spraying with SikaLatex® solution.
- Plaster bonding - Waterproof plasters

To treat plaster subject to humidity:

- Mix the plaster with the special SikaLatex® solution at 1 volume of SikaLatex® to 4 volumes of water,
- Make a rough slip as a bonding coat,
- Plaster mixed with SikaLatex® solution becomes hard and waterproof more quickly.

#### **Resumption of concreting**

To ensure a good bond between fresh and hardened concrete, and to prevent waterproofing defects on the resumption surface:

- Pressure-wash the concrete on the resumption surface
- Prepare SikaLatex® mortar mixed to a plastic consistency
- Spread the SikaLatex® mortar on the wet surface in a layer of 2 to 3 centimeters
- Pour concrete immediately
- Carefully vibrate the resumption area for good interpenetration of mortar and concrete
- Use a formwork height compatible with the clamping equipment used on site

#### **CLEANING OF EQUIPMENT**

With water immediately after use. Hardened product 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.