

# Sika® Latex

## Mortar and slurry modifier cum bonding aid

### Product Description

Sika® Latex is a synthetic rubber emulsion which when added to cement mortar/concrete/grout provides good adhesion and water resistance. It comes in the form of a milky liquid. It is fully soluble in water and is to be added directly to the gauging water of mortar/concrete/ cementitious grout.

### Uses

Sika® Latex is a high quality emulsion that substantially increases the qualities of cement mortar/concrete/ cementitious grout. The scope of application are as follows:

#### Rendering and Coatings

- Bonds rendering and coating layers
- Makes waterproof coating for tanks & pools for either fresh or sea water
- Ensures high wear resistance against erosion

#### Jointing

- Long life and watertight masonry joints

#### Concrete Repair & Adhesive Mortar

- Repair of spalling even on prestressed or reinforced concrete

#### Roof Finishing Adhesion and Hardener for Plaster Work

- Bonding for plaster works by bond-coat

#### Bonding of Concrete Casts

- Bonding between successive concrete casts by incorporating Sika® Latex into bonding mortar

#### Tiling

- Used in bonding mortar for tiles & panellings

#### Waterproof Rendering & Cement Injection Mix

- Wet rendering of walls for weather proofing
- Injection into cracks or porous concrete works

### Characteristics / Advantages

Sika® Latex improves the following properties:

- Adhesion to most substrates (concrete, stone, brick, ferrous metals, glass, ceramic tiles)
- Improves elasticity, flexibility and tensile strength
- Easy to use, non-toxic & plasticising mortar
- Inhibits cracking, improves surface hardening, limits wear and dust production
- Makes the mortar waterproof and reduces susceptibility to acids and greases
- Mortar with Sika® Latex shows extremely good bonding to bases like concrete, stone, brick etc.
- Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrates

Construction



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## Product Data

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### Form

Appearance / Colour	White (milky) liquid
Packaging	20 kg, 50 kg and 100 kg container

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### Storage

Storage Conditions / Shelf Life	12 months from date of production if stored in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight. Protect from frost.
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### Technical Data

Chemical Base	Styrene butadiene rubber emulsion.
Density	~ 1.02 kg/l at 27°C

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## System Information

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### Application Details

**Consumption** As a primer/bonding coat: 0.200 to 0.350 Kg. per square meter area.

As additive to Mortar :

Cement : Sand	Water : Cement	Sika® Latex : Water	Consumption of Sika® Latex in gms./m <sup>2</sup> /mm thickness
1:4	0.5	1:4	50
1:4	0.5	1:6	35
1:4	0.5	1:8	28
1:6	0.5	1:4	40
1:6	0.5	1:6	30
1:6	0.5	1:8	25

As additive to grout : 3 to 6 kg per bag of cement

**Substrate Quality** Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Paint, cement laitance, old coatings and any other contaminants.

**Substrate Preparation** Cementitious substrates should be pre-saturated surface dry with clean water.

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### Application Instructions

**Mixing** Mixing of diluted Sika® Latex to cement mortar should preferably be done manually. When a concrete-mixer is used, pour the mortar as soon as its consistency is cohesive. Do not run the mixer too long.

**Cleaning of Tools** Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

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### Notes on Application / Limitations

Coating

Prepare the base as indicated above. Spread cement primer by using Sika® Latex : Water = 1: 4 by volume in order to obtain a thin layer.

When the primer coat is still fresh and sticky, apply mortar made out of Sika® Latex : Water = 1: 6 by volume and finish with a trowel.

Masonry Jointing

Prepare the base as indicated above. Make a firm mortar with fine sand using Sika® Latex : Water = 1: 8. Impregnate the area with primer coat as above. While the

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primer is still wet, apply the mortar and immediately finish or reshape the surface as required.

#### Waterproof Plaster

Dilute Sika® Latex with water in the proportion of 1: 6 by volume. Prepare the mortar with this gauging water. Cured plaster with Sika® Latex would harden faster and would be watertight.

#### Bonding Successive Concrete Casts

Wash the surface with high pressure jet. Prepare a pasty mortar with Sika® Latex : Water = 1: 8 by volume. Apply this mortar onto the surface in a layer of 20-30 mm thickness. Pour fresh concrete after about an hour. Vibrate carefully to achieve satisfactory interpenetration of mortar and concrete.

#### Polymer Modified Cement Grout for Injection

Open the crack lines into V or U groove and fix galvanised iron nozzles spaced at regular intervals of 0.5 to 1.5 mm c/c along groove length with Sika® - 2 / Sika® -4a mortar or Sikadur® -31. Prepare a cement grout slurry admixed with Sika® Latex at a dilution rate of 1: 4 to 1: 8 by volume with water. Inject the fluid as per normal practice.

### Curing Details

#### Curing Treatment

It is important to avoid rapid evaporation of the Sika® Latex for Mortars. It is recommended to cover the surface with a polyethylene film, use water misting or apply Sika® Antisol® curing compound.

During adverse weather conditions (high temperatures, low relative humidity, wind, sun etc.) take particular care with curing precautions.

#### Value Base

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.

#### Health and Safety Information

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 containing physical, ecological, toxicological and other safety-related data.

#### 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.

