

Sika Latex®

Water Resistant, S.B.R Bonding Emulsion and Mortar Additive

Product Description	Sika Latex® is a modified styrene butadiene emulsion. Due to its polymeric action, mortars containing Sika Latex® have superior adhesion, good compressive strengths and considerably improved flexural and tensile strengths. In addition Sika Latex® mortars have greatly reduced water permeability, improved resistance to chemicals and to abrasion; are Non-Toxic and non-corrosive. Sika Latex® mortars possess excellent freeze thaw resistance coupled with resistance to long term water immersion. Sika Latex® has been supplied world wide to the building and construction industry for over 25 years.
Uses	Sika Latex® may be used in applications such as : <ul style="list-style-type: none">■ High strength floor screeds.■ Repair mortar for patching and filling.■ For filling and patching mortars that require thin layer finishing..■ For tile adhesive systems.■ For producing floor screeds with enhanced freedom from 'dusting', but with improved flexibility and resistance to cracking.■ As a bonding agent for renderings including the Sika® -1 System, for wear resistant floor toppings in water treatment plants, sewage systems, effluent plants etc.■ For bonding mortar between old and new concrete.■ WFBS Listed (Listing number 8905507). Suitable for use in cement mortars in contact with drinking water.■ U.S.D.A. Approved.■ Bond Strength (ASTM-C-882).
Advantages	Sika Latex® is a simply added to the mixing water to provide the following beneficial properties: <ul style="list-style-type: none">■ Extremely good adhesion.■ Reduced shrinkage.■ Greater elasticity.■ Excellent water resistance.■ Increased abrasion resistance.■ Improved chemical resistance.■ Non -toxic. N.B. Sika Latex® does not re-emulsify, even in high alkaline conditions.
Approval / Standards	Sika Latex® has been tested as per SCAQMD Rule 1168. Result: VOC 0 g/l
Technical Data	
Colour	white
Density	1.01 ± 0.02 kg/l
Packaging	5 and 20 kg pails 200 kg drums Bulk Tanks packing available upon request.
Storage	Store free from heat and frost in sealed containers.
Shelf life	12 month from date of production if stored properly in original unopened packing.



Application

Surface Preparation

The substrate must be sound, clean and free from oils, grease or surface contaminants. Remove any loose material and laitance using a scrubbing machine or mechanical abrasion. If base is porous moisten well until uniformly saturated, but leave no puddles of water.

Bonding Agent

On concrete surfaces, brick, block work and for renderings. Also for Sika® -1 waterproof renders and floor screeds.

(A) This should be mixed to a grout consistency and have the following composition
Sika Latex® one part, water one part.

Cement one part, washed fine sand one part.

(Coverage 4 - 5 m² / litre of Sika Latex®).

(B) Apply the bonding grout generously and vigorously with a stiff brush to the pre-wetted, prepared substrate.

(C) The first mortar coat must then be applied while the bonding grout is still wet.

Mixing :

- Mix dry ingredients with a mix of water and Sika Latex (1:1 to 1:4).
- Keep mortar and concrete mixes as stiff as possible for the intended use. Mix for a minimum of 3 minutes.
- If mixing Sika® Latex with a pre-packaged product the amount of total water in the mix should be reduced to compensate for the addition of Sika® Latex.
- Do not over mix mortars containing Sika® Latex.
- Do not add neat Sika Latex to a mortar mix; always add it to the water prior to mixing.
- Always use well graded, clean, washed sand.
- Always keep the W/C ratio to the minimum required to provide correct workability and compaction..

General

Recommendations

- Do not use neat Sika Latex® as a bonding grout, without adding cement and sand.
- Maximum dilution of Sika Latex® with the mixing water is 1:4 (Latex: Water).
- Normal 'concrete' mixers are not suitable for Sika Latex® mortars; the higher performance Crete angle or forced action paddle type mixers are recommended for more efficient and speedier mixing of the mortars.
- Always keep the water/cement ratio to a minimum to enable correct working and compaction. A W/C of less than 0.4 is advised.
- Sika Latex® mortars should not be over mixed.
- Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of Sika Latex® mortars, by the use of polythene, damp Hessian or concrete curing compounds. Always use sharp sand, clean and washed.
- Maximum thickness per lay 40 mm.
- Ensure hardened layers are mechanically "keyed", wetted and grouted.
- Renderings, floor toppings etc, should be allowed to cure correctly. If temperatures drop to 0°C or less (minimum application temperature), protect the uncured mortar against frost.

Safety Instructions

Ecology

Do not dispose of into water or soil but according to local regulations

Transport

Non-hazardous.

Safety Precautions

Contact with skin, eyes or mucous membrane may cause irritation. Wear gloves and goggles.

Toxicity

Non-toxic under the relevant health and safety codes

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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