

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, for example in: <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.
Technical Data	
Colour	white
Density	1.01 ± 0.02 kg/l
Packaging	5 and 20 kg pails 200 kg drums.
Storage	Store free from heat and frost in sealed containers.
Shelf life	Shelf life at least 12 month
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 scabbling machine or mechanical abrasion. If base is porous moisten well until uniformly saturated, but leave no puddles of water.



Bonding Grout 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.

MIX REF	MIX 1	MIX 2	MIX 3	MIX 4	MIX 5	MIX 6	MIX 7
Typical application and suggested uses.	Standard SBR mortar for water resistant repairs. Patching floors, Screeds. Renders. Repointing masonry. Wet & grout surface.	High performance SBR. Repair mortar with improved chemical and physical properties. Waterproofing renders. For high duty applications. Wet and grout surface	Heavy duty floor screeds up to 25 mm thickness Heavy duty patch repair mortar for Industrial floors. Wet and grout surface.	Fast setting and hardening version of MIX 2. For rapid repairs, cold weather work. Wet and grout surface.	Adhesive mortar for bonding, slip bricks, tiles, coping stones, kerbs etc.	"Microconcrete" pourable waterproof SBR, repair concrete. In repairs of larger voids for sections of repair up to 75 mm in depth.	Non-shrink, waterproof SBR modified grout. For example, for sealing cracks and stabilising disbonded screeds.
MIX DESIGN* (aggregates calculated as dry)							
Portland cement	50 kg	50 kg	50 kg	50 kg	50 kg	50 kg	50 kg
Sand.	125 kg	125 kg	75 kg (gravel) 75 kg	125 kg	125 kg	125 kg	125 kg
Aggregate	-	-	(3- 6mm)	-	-	-	-
Sika Latex	7 liters	9 liters	6 liters	7-9 liters	9 liters	7-9 liters	7-9 liters
Water	up to 12 liters	up to 9 liters	up to 12 liters	up to 9 liters	up to 9 liters	up to 9 liters	up to 9 liters
Additions	-	-	-	(Sika 3) 2 liters	-	(Sikament) 0.4 lit	(Intraplast) ¼kg
Typical Compressive strengths	50-60 N/mm ²	50-60 N/mm ²	55-65 N/mm ²	45-55 N/mm ²	45-50 N/mm ²	45-50 N/mm ²	30-40 N/mm ²
Typical yield'	0.09 m ³	0.09 m ³	0.10 m ³	0.10 m ³	0.09 m ³	0.11 m ³	0.04 m ³
Notes:	An additional 25 kg sand should be added where a topping thickness is in excess of 12mm.	Where larger areas are to be treated over 12mm in thickness add a further 25kg sand.	Apply semi-dry. Screeds with a thickness in excess of 25mm require only 4 liters Sika Latex.	This mix contains Calcium Chloride (Sika 3) and should not be used for repairs to reinforce concrete or over unprotected steel work.	For thin section joints use Zone 4 sand. Keep water content to a minimum.	Ensure shuttering is well sealed. Vibration required.	May be pumped. Use promptly. Where possible dampen the cracks.

Note

These typical mixes are based on the use of dry sand. Allowance must be made for any moisture content of the sand to ensure the correct quantity of Sika Latex® is used. In some circumstances dilution of Sika Latex® prior to its addition to the mix will not be possible.

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 creteangle 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 overmixed.
- 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. (See table).
- 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 products when properly stored, handled and applied under normal conditions. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

For further technical information, please consult our technical service department.



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