

Sika Latex®

High Performance Water Resistant Bonding Agent and Mortar Improver

Product Description

Sika Latex® is a synthetic rubber emulsion for adding to cement mortars where good adhesion and water resistance are required.
The product is suitable for use in tropical and hot climatic conditions.

Uses

Sika Latex® is a high quality emulsion that substantially improves the qualities of cement mortars in applications such as:

- Thin layer patching mortars
 - Renders
 - Floor screeds
 - Concrete repair mortars
 - Abrasion resistant linings
 - Tile fixing mortars
 - Masonry mortars
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Advantages

Sika Latex® is simply added to the mixing water to provide the following properties:

- Extremely good adhesion
- Reduced shrinkage
- Greater flexibility
- Excellent water resistance
- Increased abrasion resistance
- Improved chemical resistance
- Non-corrosive
- Ready for use

Sika Latex® does not re-emulsify, even under highly alkaline conditions.

Test Report

Tested in accordance with ASTM C1042, Type II, (BS 6319 part 4).
WFBS listing no 8905507 (Suitable for use in mortars in contact with drinking water)

Product Data

Type	Synthetic Rubber Latex
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Form	White liquid
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Packaging	25 lt. pails, 200 lt. drums
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Storage Condition	Protect from direct sunlight. Store in a dry area in original packaging between +5°C and +35°C
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Shelf life	12 months minimum from production date if stored properly in original unopened packaging
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Technical Data

Density Approximately 1.00 kg/lt.

Chloride content Nil (EN 934-2)

Application Details

Substrate Preparation Concrete surfaces should be clean, sound and free from oil, grease, cement laitance and all loosely adhering particles. The surface should be in a saturated surface dry condition.

Dispensin Pre-mix **Sika Latex®** and clean water, then add cement and sand until desired consistency is achieved. Mix for at least 3 minutes until a homogeneous mixture is achieved.

Application

For all applications apart from sprayed on renders, a bonding bridge should be brushed into the prepared surface.

1. Bonding Bridge

Cement : Sand : Liquid (1 part Sika Latex® + 1 part Water) = 1 : 1 : 1 (by volume) or

Cement : Sand : Liquid (1 part Sika Latex® + 1 part Water) = 1.5 : 2 : 1 (by weight)

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

2. Repair Mortars

Portland cement	50 kg	50 kg	50 kg
Sand	125 kg (+25 kg)	125 kg (+25 kg)	125 kg
Sika Latex®	7 lt	9 lt	7-9 lt
Water	12 lt	9 lt	9 lt
Admixture	-	-	2 lt Sika Rapid-1
Yield	approx. 90 lt	approx. 90 lt	approx. 100 lt
Remarks	Up to 25 kg of Sikadur Aggregates should be added where the thickness per layer exceeds 12 mm		Apply within 10-20 minutes at 25°C. Sika Rapid-1 is chloride free and does not attack the reinforcement.

3. Flooring, Adhesive and Grouting Mortars

Mix / Application	Heavy duty floor, patch repair mortar for industrial floors.	Adhesive mortar for bonding tiles, slip bricks, coping stones, kerbs, etc	SBR modified grout. Sealing cracks and stabilizing unbonded screeds.
Portland cement	50 kg	50 kg	50 kg
Sand	75 kg	125 kg	125 kg
Aggregate	75 kg (2.3 - 5 mm)	-	-
Sika Latex®	4-6 lt	9 lt	7-9 lt
Water	12 lt	9 lt	9 lt
Others	-	-	0.25 kg Intraplast
Yield	approx. 100 lt	approx. 90 lt	approx. 95 lt
Remarks	Screeds with increasing thickness require a lower consumption of Sika Latex® .	For thin sections use zone 4 sand. Keep water content at a minimum.	May be pumped. Use promptly. Where ever possible saturate surfaces.

Important Note

- The above mixes are for guidance and based on the use of sharp, well graded aggregates and dry sand. Trials with the materials to be used are recommended.
- For optimum results, always ensure that the correct **Sika Latex®**: Water ratio is used as shown in the tables above.
- Depending on the application and performance required, **Sika Latex®** may be added to the clean mixing water within the range of 1:1 to 1:4.

Aggregate Grading	<p>Aggregates should be sharp, well graded and thoroughly washed. Sand particle sizes should correspond to the thickness of mortar to be applied and required surface finish.</p> <table border="1"> <thead> <tr> <th>Thickness/Application</th> <th>Grading</th> </tr> </thead> <tbody> <tr> <td>< 2 mm</td> <td>0 - 0.5 mm</td> </tr> <tr> <td>2 - 10 mm</td> <td>0 - 1.0 mm</td> </tr> <tr> <td>10 - 25 mm</td> <td>0 - 2.3 mm</td> </tr> <tr> <td>> 25 mm</td> <td>0 - 5.0 mm</td> </tr> </tbody> </table>	Thickness/Application	Grading	< 2 mm	0 - 0.5 mm	2 - 10 mm	0 - 1.0 mm	10 - 25 mm	0 - 2.3 mm	> 25 mm	0 - 5.0 mm
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< 2 mm	0 - 0.5 mm										
2 - 10 mm	0 - 1.0 mm										
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> 25 mm	0 - 5.0 mm										
Curing	Standard curing practices must be followed.										
Cleaning	Clean all equipment and tools with water immediately after use.										
Remarks	<p>Renderings and floor toppings should be allowed to cure correctly. Avoid excessive air-entrainment through over mixing. Do not use neat Sika Latex® or Sika Latex®/Water as a bonding agent, always add cement and sand.</p> <p>Normal "concrete" mixers are not suitable for Sika Latex mortars; the higher performance 'cretriangle' or forced action paddle type mixers are recommended. Always keep the water/cement ratio to a minimum to enable correct working and compaction. A w/c ratio of less than 0.4 is advisable.</p> <p>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.</p> <p>Maximum layer thickness per application should not exceed 40 mm Ensure hardened layers are mechanically "keyed", wetted and grouted</p>										
Notes	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.										
Safety	For information and advice on the safe handling, storage and disposal of chemical products, users should 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.



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