

Product Data Sheet
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SikaLatex®

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Water resistant bonding agent and Mortar improver

Construction

Product Description

A high quality, synthetic polymer emulsion for adding to cement mortars where good adhesion and water resistance are required.

Uses

Where substantially increased physical qualities of cement mortars are required, such as:

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

Characteristics / Advantages

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

- Increased adhesion strengths
- Reduced shrinkage
- Greater flexibility
- Excellent water resistance
- Increased abrasion resistance
- Improved chemical resistance
- Non-toxic
- Non-corrosive

SikaLatex® does not re-emulsify, even under highly alkaline conditions

Product Data

Form

Appearance / Colour Liquid Milky white

Packaging 5, 25 and 200 litre Containers.

Storage

Storage Conditions / Shelf-Life 12 months in original, unopened container. Store in a dry area between +5°C and +35°C. Protect from direct sunlight.



Technical Data

Density $\pm 1,01$ kg/litre

pH - Value $\pm 8,0$

Application Details

Consumption / Dosage Added to the mixing water within the range 1:1 to 1:4 depending on application.

Substrate Preparation / Priming Concrete surfaces should be clean, sound and free from oil, grease, or other surface contaminants. Remove cement laitance and all loosely adhering particles using suitable mechanical means. Absorbent surfaces should be saturated thoroughly with water. Remove all standing water.

Application Conditions / Limitations

Substrate Temperature Min. 5°C – Max. 30°C

Ambient Temperature Min. 5°C – Max. 35°C

Application Instructions

Mixing (Ratio/Dosage)

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 SikaLatex[®] + part water) = 1 : 1 : 1 (by volume) or

Cement : Sand : Liquid (1 part SikaLatex[®] + part water) = 1.5 : 2 : 1 (by weight)

Apply the slurry onto the pre-wetted substrate in 1-2mm 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
SikaLatex [®]	7 lt	9 lt	7-9 lt
Water	12 lt	9 lt	9 lt
Admixture	-	-	2 lt Sika Rapid-2
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 12mm		Apply within 10-20 minutes at 25°C. Sika Rapid-2 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 stabilising unbonded screeds
Portland cement	50 kg	50 kg	50 kg
Sand	75 kg	125 kg	125 kg
Aggregate	75 kg (2.3 -5 mm)	7-9 lt	-
SikaLatex®	4 -6 lt	9 lt	7-9 lt
Water	12 lt	9 lt	9 lt
Others	-	-	0.25kg Intraplast-Z
Yield	Approx.. 100 lt	Approx.. 90 lt	Approx.. 95 lt
Remarks	Screeds with increasing thickness require a lower consumption of SikaLatex®	For thin sections use zone 4 sand. Keep water content at a minimum	May be pumped. Use promptly. Wherever 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 SikaLatex® : Water ratio is used as shown in the tables above.
- Depending on the application and performance required, SikaLatex® may be added to the clean mixing water within the range of 1:1 to 1:4.

Aggregate Grading

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.

Thickness/Application	Grading
<2 mm	0 – 0.5mm
2 – 10 mm	0 – 1.0mm
10 – 25mm	0 – 2.3mm
>25mm	0 – 5.0mm

Application Method / Tools

SikaLatex® is generally added to the clean mixing water within the range 1:1 to 1:4. For all applications, apart from sprayed on renders, a bonding coat of SikaLatex® water 1:1 mixed with fresh cement, should be brushed into the prepared surface. Subsequently, mortar application must be carried out whilst the bonding coat is still wet.

Cleaning of Tools

Remove uncured SikaLatex® from tools and equipment with water. Cured material can only be removed mechanically.

Notes on Application / Limits

Do not use SikaLatex® and water as a bonding agent, always add cement.

Renderings and floor toppings should be allowed to cure correctly

Avoid excessive air-entrainment through over mixing

Normal concrete mixers are not suitable for the SikaLatex® mortars; the higher performance 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

Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of SikaLatex® mortars by the use of polythene, damp hessian or concrete curing compounds.

Maximum layer thickness per application should not exceed 40mm. Ensure hardened layers are mechanically "keyed", wetted and grouted

Curing Details

Curing Treatment

Protect from wind and direct sunlight for at least 24 hours after application. For continuous submersion applications, allow the treated surface to cure for at least 48 hours before submerging.

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.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

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 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 must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request .



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