

Sika® Latex Power

SBR based multipurpose polymer for waterproofing and repair

Distribution

Product Description	Sika® Latex Power is a synthetic rubber emulsion which when added to cement slurry/ 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	<ul style="list-style-type: none">■ For waterproofing of roof slabs, sunken slabs, basements, water tanks, sunshades etc. in combination with cement■ As a bonding agent for uses in repair and plastering■ For making polymer mortar for repairs mortars etc.■ Treatment for leaching and saltpetre action■ Multipurpose mortar admixture for injection grouts
Characteristics / Advantages	<ul style="list-style-type: none">■ Improves elasticity, flexibility, tensile strength of cement and reduces cracking■ Makes the mortar waterproof and reduces susceptibility to acids and gases, salt petre action etc.■ Mortar with Sika® Latex Power 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■ Sika® Latex Power can be diluted with water (1 : 4 - 6) depending on the type of application■ Screed required with Sikacim®/ Sika® Plastocrete Super to protect waterproofing layer■ Standard coating system can be further reinforced by placing Sika® Fab 1 fabric layer in between 1st and the 2nd coat.

Product Data

Form

Appearance / Colour White (milky) liquid

Packaging 250g, 500g, 1kg, 5kg, 10kg, 20kg

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.

Technical Data

Chemical Base Styrene butadiene rubber emulsion.

Density ~ 1.02 kg/l at 27°C

Polymer Content ~ 40.0 % by weight



System Information

Application Details

Consumption	Application	Sika® Latex Power: Water: Cement	Dilution in Water	Application Area	Consumption of Sika® Latex Power at mentioned recommended dilutions
	Waterproof Slurry Coating/Bond Coat	1:4:8-10	1:4	Waterproof Coating	0.075 kg/sqm per coat (1kg diluted Sika® Latex Power approximately covers 6-8 sqm in two coats depending on substrate)
	Polymer Mortar (1Cement:4 Sand)	-	1:6	Polymer Repair Mortar	0.035 kg/sqm/mm thickness at Water: Powder ratio of 0.5 (½ inch mortar requires approx 0.44 kg diluted Sika® Latex Power)
	Putty (1 SLP : 2 Marble Dust)	-	1:2	Crack filling etc.	0.015 kg/sqm/mm thickness at Water: Powder ratio of 0.5
	Polymer Concrete (1cement:2 Sand:4Aggregates)	-	1:4	Repair Concrete & Screed	10-15% by weight of cement at Water: Powder ratio of 0.5
	Additive to cement for injection grouting	-	1: 6-8	-	3-6 kg/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.

Application Instructions

Mixing Sika® Latex Power is to be added to cement/ cement mortar/concrete/grout depending on the type of application as per the table above.
Mixing of diluted Sika® Latex Power to cement mortar should preferably be done manually by volume as per the table.

Application Method / Tools

Waterproof Coating

Prepare the base as indicated in the above table. Spread cement primer by using Sika® Latex Power : 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 Power: Water = 1: 4 by volume and finish with a trowel / brush.

During application the mixture of Sika® Latex Power and cement needs to be continuously stirred to prevent the cement particles from settling.

Prepared material must be used within 20- 30 minutes depending upon temperature humidity etc. When used as waterproofing slurry coating minimum two coats is recommended To be protected by screed on top for longer life.

Standard coating system can be further reinforced by placing Sika® Fab 1 fabric layer in between 1st and the 2nd coat.

Masonry Jointing

Prepare the base as indicated above. Make a firm mortar with fine sand using Sika® Latex Power: Water = 1: 6-8. Impregnate the area with primer coat as above. While the primer is still wet, apply the mortar and immediately finish or reshape the surface as required

Polymer Mortar

Dilute Sika® Latex Power with water in the proportion of 1: 6 by volume. Prepare the mortar with this gauging water. Cured plaster with Sika® Latex Power would harden faster and would be watertight. This type of polymer mortar should be used for all repair jobs for optimum performance.

Bonding Successive Concrete Casts

Wash the surface with high pressure jet. Prepare a pasty mortar with Sika® Latex Power: Water = 1: 6-8 by volume. Apply this mortar onto the surface in a layer of 20-30 mm thickness. Pour fresh concrete after about an hour. When used as a bonding agent between subsequent layers of plaster the same procedure is to be adopted.

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 Power at a dilution rate of 1: 6-8 by volume with water. Inject the fluid as per normal practice.

Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.
Waiting Time	As waterproof coating 2-6 hours depending on temperature and humidity
Notes on Application / Limitations	Avoid application in direct sun and/or strong wind. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness. For waterproofing or damp proofing application, always use at least 2 coats. In areas of severe water penetration, three coats might be required. Protect freshly applied material from rain etc.
Curing Details	
Curing Treatment	3-5 days with wet burlap/ gunny bag/ hessian cloth. Not to be ponded with water.
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.

