

## PRODUCT DATA SHEET

# SikaLatex<sup>®</sup> Power BD

### MULTIPURPOSE POLYMER FOR WATERPROOFING AND REPAIR

#### DESCRIPTION

SikaLatex<sup>®</sup> Power BD 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

- 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 salt petre action
- Multipurpose mortar admixture for injection grouts

#### FEATURES

- 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 SikaLatex<sup>®</sup> Power BD 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
- SikaLatex<sup>®</sup> Power BD can be diluted with water (1 : 4 - 6) depending on the type of application
- Screed required with Sikacim<sup>®</sup> / Sika<sup>®</sup> Plastocrete Super to protect waterproofing layer
- Standard coating system can be further reinforced by placing Sika<sup>®</sup>Fabric-50 fabric layer in between 1<sup>st</sup> and the 2<sup>nd</sup> coat
- Does not re-emulsify, even in high alkaline conditions

#### PRODUCT INFORMATION

<b>Composition</b>	Styrene butadiene rubber emulsion
<b>Packaging</b>	1kg, 5kg, 10kg, 20 kg
<b>Appearance and colour</b>	White (Milky) Liquid
<b>Shelf life</b>	18 months from date of production if stored properly in original, unopened and undamaged sealed pack.
<b>Storage conditions</b>	Store in dry conditions. Protect from moisture and direct sunlight.
<b>Density</b>	~ 1.02 kg/l at 27 °C
<b>Total chloride ion content</b>	Nil

## TECHNICAL INFORMATION

Tensile adhesion strength

> 1.5 N/mm<sup>2</sup>

(EN 1542)

## APPLICATION INFORMATION

Recommended dosage	Application Area	Mixing Ratio	Consumption of SikaLatex® Power BD at recommended dilutions
	Waterproofing	SikaLatex® Power BD : Water : Cement 1: 4: 8	0.075 kg/m <sup>2</sup> per coat. Two coats recommended. ( 1kg of diluted SikaLatex® Power BD covers ~ 6-8 m <sup>2</sup> in two coats depending on the substrate)
	Bonding Agent	SikaLatex® Power BD : Water : Cement 1: 4: 6	0.05 kg/m <sup>2</sup> per coat.
	Repair Mortar	SikaLatex® Power BD : Water : Cement : Sand 1: 4: 10 : 40	0.035 kg/m <sup>2</sup> /mm thickness at Water: Powder ratio of 0.5 ( ½ inch mortar requires approx 0.44 kg diluted SikaLatex® Power BD
	Crack Fill	SikaLatex® Power BD : Water 1: 4	0.015 kg/m <sup>2</sup> /mm thickness at Water: Powder ratio of 0.5
	Repair Concrete & Screed	SikaLatex® Power BD : Water 1: 4	10-15% by weight of Cement at Water : Powder ratio of 0.5
	Injection Grout	SikaLatex® Power BD : Water 1: 6	3-6 kg per bag of cement.
<b>Ambient air temperature</b>	Minimum +5°C		
<b>Substrate temperature</b>	Minimum +5°C		
<b>Drying time</b>	Waiting time for waterproof coating 2-6 hours depending on temperature and humidity.		

## BASIS OF PRODUCT DATA

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.

## IMPORTANT CONSIDERATIONS

- 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 Treatment will be for 3-5 days with wet burlap/ gunny bag/ hessian cloth. Not to be ponded with water.
- Renderings and floor toppings should be allowed to cure appropriately. This can be achieved with the application of a curing compound such as Antisol® or with other curing practices such as covering with polythene sheets or damp hessian.
- Avoid excessive air-entrainment through over mixing.
- Never use neat SikaLatex® Power BD as a bonding agent
  - always add cement and sand.

## ECOLOGY, HEALTH AND SAFETY

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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Paint, cement laitance, old coatings and any other contaminants. Cementitious substrates should be pre-saturated surface dry with clean water.

### MIXING

SikaLatex® Power BD is to be added to cement/ cement mortar/ concrete/ grout depending on the type of application as per the table above. Mixing of diluted SikaLatex® Power BD to cement mortar should preferably be done manually by volume as per the table. Please note that when a Waterproofing Slurry or Bonding Coat is to be prepared Cement is to be added in the Polymer for getting consistent mixture.

### APPLICATION METHOD / TOOLS

#### Waterproof Coating

Prepare the base as indicated in the above table. Spread cement primer by using SikaLatex® Power BD : 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 SikaLatex® Power BD : Water = 1: 4 by volume and finish with a trowel / brush. During application the mixture of SikaLatex® Power BD 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® Fabric-50, fabric layer in between 1<sup>st</sup> and the 2<sup>nd</sup> coat.

#### Bonding agent

Prepare the bond coat as indicated in the above table. Apply the single coat of bonding agent to obtain a thin layer. When the bond coat is still fresh and sticky, apply the mortar or concrete.

#### Masonry Jointing

Prepare the base as indicated above. Make a firm mortar with fine sand using SikaLatex® Power BD : 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 SikaLatex® Power BD with water in the proportion of 1: 6 by volume. Prepare the mortar with this gauging water. Cured plaster with SikaLatex® Power BD 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 SikaLatex® Power BD : Water = 1: 4 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 galvanized 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 SikaLatex® Power BD at a dilution rate of 1: 6-8 by volume with water. Inject the fluid as per normal practice.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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 re-

serves 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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