

## PRODUCT DATA SHEET

# SikaEmaco® SBR 2

(formerly MEmaco SBR 2)

High dispersion SBR Latex ensuring higher mixing efficiency with water reduction for site batched mortars & waterproofing/bonding slurry/screed

### DESCRIPTION

SikaEmaco® SBR 2 is a milky-white, Styrene-Butadiene co-polymer latex liquid, produced from styrene and butadiene. When used with cement, concrete and plaster, it reduces the mixing time through high dispersion of the polymer and improves waterproofing, new to old concrete/plaster bonding and strength characteristics and reduces shrinkage and cracking of the mix.

### USES

Concrete repair: Spalled concrete, repairing floors, beams and pre-cast slabs, chajjas etc.

- Bond Coat: For bonding new concrete to old concrete, plaster, stone/brick masonry.
- Plaster repair: For repairing plaster or making water proof plaster which is better than normal plaster.
- Floor screeds and toppings: Abrasion resistant and non-dusting floors.
- Waterproofing: Basements side walls and rafts, lift pits, inspection pits, sunken/overhead water tank, sunken portions of bathrooms and toilets, balconies, chajjas, exposed roofs before finished screed.
- Other typical applications: Bedding tiles, fixing or re-fixing slip bricks.

### CHARACTERISTICS / ADVANTAGES

- Multiple applications: Robust product that is economical, easy to handle and store.
- Easy to Mix: Faster mixing to enhance worker efficiency.
- Shrinkage/crack control: High flexural / tensile strength to control cracking.
- Mortar modifier- Improved flexibility, no bleeding, lower water cement ratio and high resistance to water penetration.
- Improves physical/mechanical properties – higher abrasion resistance, good adhesion to building materials similar thermal characteristics to concrete.
- Corrosion control: Prevents corrosion of embedded steel.
- High Dispersion technology: Allows for better workability at slightly reduced water

### PRODUCT INFORMATION

<b>Chemical base</b>	Styrene-Butadiene co-polymer latex
<b>Packaging</b>	SikaEmaco® SBR 2 is supplied in 1, 5, 20 Litre.
<b>Shelf life</b>	Shelf life is 12 months when stored as below.
<b>Storage conditions</b>	Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.
<b>Appearance / Colour</b>	Milky-white

Density Fresh wet density = 2000 – 2200kg/m<sup>3</sup>

pH-value approx. 10 ± 1

## TECHNICAL INFORMATION

**Mortar mix design**  
Mix design  
Cement= 50kg  
Quartz Sand (Zone II)=150kg  
(SikaEmaco® SBR 2= 10lt  
Water= 10lt

## APPLICATION INFORMATION

**Mixing ratio**  
**Bonding Coat:** Mix 1½ parts cement to 1-part SikaEmaco® SBR 2 by weight of cement.  
**Waterproofing slurry:** Mix 2 parts cement to 1-part SikaEmaco® SBR 2 by weight of cement.  
**Repair Mortar:** 10 Litre of SikaEmaco® SBR 2 : 50kg of Cement : 150kg of sieved sand : 10 litres of water.  
**Screed:** 10 Litre of SikaEmaco® SBR 2 : 50kg of Cement : 75kg of sand : 75kg of coarse aggregate (6mm down) : 10 litres of water.

**Consumption**  
**Bonding Coat:** Mix of 1 Litre SikaEmaco® SBR 2 with 1.5kg of cement covers 4 ~ 4.5m<sup>2</sup>.  
**Waterproofing Slurry:** Mix of 1 Litre SikaEmaco® SBR 2 with 2kg of cement covers 2m<sup>2</sup> in two coats.  
**Repair Mortar/Concrete Screed:** 10 Litre of SikaEmaco® SBR 2 per 50kg of cement.

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- Remove all loose concrete, grease, mould oil or curing compound from concrete and steel surfaces using wire brush, scrubber.
- Saw cut the concrete areas to a square or rectangular profile to a minimum 10mm depth at the extreme edges.
- Roughen the surface free of loose particles and dust and saturate with water.
- Remove excess/standing water.

### MIXING

#### Bonding slurry

- Mix 1½ parts cement to 1 part MasterEmaco SBR 2 by weight of cement.
- Mix to a lump-free creamy, consistency for 2~3 minutes by slowly adding SikaEmaco® SBR 2.
- Using a stiff brush, work the bonding slurry well into the damp surface. When the bond coat is tacky apply mortar/screed overlay.

#### As waterproofing slurry:

- Mix 2 parts cement to 1 part SikaEmaco® SBR 2 by weight of cement.
- Mix to a lump-free creamy, consistency for 2~3 minutes by slowly adding SikaEmaco® SBR 2.
- Using a stiff brush, work first coat of waterproofing slurry well into the damp surface.
- After the first coat has dried, apply second coat at right angle to first followed by mortar/screed overlay. Average time gap between two coats is 3~4 hours.

#### Mortar/Screed:

- Use fresh, lump free cement, well graded sand/aggregates free of excessive fines.
- Mix sand and cement and coarse aggregate in Pan Type mixer for 1~2 minutes. Hand mixing is only permissible when the total weight of the mix is less than 25kg.
- Mix required quantity of SikaEmaco® SBR 2 and water for 2 minutes in a separate container, to avoid excessive air entrapment.
- Finally, without delay, add the liquid mix into mixer containing the mixed powdered sand/aggregate and cement until required consistency is achieved.

## APPLICATION

### Rendering to vertical surfaces

- Apply the bonding slurry to the prepared surface and then apply the SikaEmaco® SBR 2 render onto the wet bonding slurry.
- Application Thickness: 5 to 25mm.
- Greater thickness can lead to slumping.
- Apply multiple layers in rapid succession, within 15 to 30 minutes of the previous layer.
- Finish the surface using a wooden float/steel trowel.
- Apply modified slurry coat on the first layer in case application of second layer is delayed to long time gaps.

### Screeds and toppings, applied to horizontal surfaces

- Application thickness 10mm to 40mm.
- The SikaEmaco® SBR 2 modified mix should be placed over the still wet bonding slurry, well compacted by hand and trowelled to finish using a wooden float/steel trowel.

**Curing:** Moisture cure for 24 hours and then allow to dry slowly.

## 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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#### Product Data Sheet

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