



Smartcare SBR Bonding Agent

SBR Based Polymer Bonding agent and additive for Cementitious Materials

Description

Smartcare SBR Bonding Agent is a high performance modified styrene-butadiene rubber (SBR) based binder. It is recommended as a bonding agent for concrete/ mortar in repair like spalled concrete-floor, chajjas, beams, slabs as it bond old and new concrete surfaces strongly with plasters. It can also be used for waterproofing of toilets and bathrooms, small terraces. It also serves as a bond coat for repair patch work.

Uses

- For concrete/ mortar repairs: RCC members, spalled concrete, repairing floors, beams and pre-cast slabs, chajjas
- As a polymer modified mortar/concrete in old and new constructions
- For waterproofing: basement side walls, small roof terraces, sunken areas of toilets & bathrooms, chajjas & lift pits, balconies for dampness & efflorescence, please use Asian Paints Berger Smartcare Damp Block 2k
- As a bond coat: for bonding of new concrete to old concrete in repair patch work
- Floor screeds and toppings: non-dusting floors

Characteristics/ Advantages

- Multipurpose: robust product that is ecological, easy to handle and has multiple applications
- Easy to mix: compatible and faster mixing promoting worker efficiency
- Mortar modifier: improved flexibility, low water cement ratio and resistance to water penetration
- Bonding: bonds strongly to concrete, plasters, masonry, cementitious surfaces
- Cracking: reduces cracking thorough enhanced mortar flexural strength
- Abrasion resistance: Increases wear resistance under rubber-wheeled traffic

Packing

1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr

Dosage:

- As a waterproofing coating: Mix proportion by weight;

1:2 (Smartcare SBR Bonding Agent: Cement)

- As a mortar modifier: 7% of SmartCare SBR Bonding agent by weight of cement
- As a bonding agent: Mix proportion by weight, 1:1 (Smartcare SBR Bonding Agent:cement)

Coverage

As a waterproofing coating: 1.5 – 2.m²/kg in 2 coats

As a mortar modifier: 3.5 kg of Smartcare SBR Bonding Agent per 50 kg of cement

As a bonding agent: 4.5-5 m²/kg per coat

Properties

Type	Modified SBR dispersion
Form	White liquid
% solids	30 – 32%
Specific Gravity	1 to 1.1

Application Method

Surface preparation

- Remove all loose concrete, grease, mould oil or curing compound from concrete surfaces using wire brush, scrubber and suitable solvents (if required)
- Saw cut the concrete areas to a square or rectangular profile to a minimum 10mm depth at the extreme edges to promote enhanced bond strength
- Clean the concrete surface for the regions where breaking is an issue. Roughen the surface free of loose dust and particles
- Saturate the surface thoroughly with portable water prior to priming. Make sure to remove any excess of water if present

Waterproofing Coating

Use Smartcare SBR bonding agent as a solution for repairs and preventive waterproofing solutions only for treating issues of dampness & efflorescence, Asian Paints Berger Smartcare Damp block 2k is recommended.

- 1:2 ratios by weight of Smartcare SBR Bonding agent to cement ratio is maintained for using it as a waterproofing slurry coat

- Mix for 2-3 minutes to avoid air entrapment. Slowly, keep on adding cement to SBR bonding agent until the required consistency is achieved.
- Mechanical stirrers are recommended for efficient mixing
- Apply 2 coats of the mix by brush in a span of 4-6 hours on the prepared concrete substrate
- It is recommended to cover the coating with a protective screed to the desired slope & thickness

Repair mortars and renders

- A suitable mix ratio for patching repair mortar or render is as follows
- Mix design – cement : sand in 1:3 proportion and add Smartcare SBR Bonding Agent & % by weight of cement and required amount of water.

Bond coat

- For bond coat application, mix Smartcare SBR bonding agent and cement in the ratio of 1:1
- Brush apply 1 or 2 continuous coats of the mix on the prepared concrete substrate
- Ensure to overlay the repair mortar when the bond coat is still tacky.
- Recoat again if the tackiness is lost

Precautions & Limitations

- Recommended dosage to be followed achieve desired results
- When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable

- Surface should be in saturated surface dry conditions
- In case of bond coat application, make sure the repair mortar is overlaid when the surface is tacky. Recoat again if the tackiness is lost.
- Stagnant water should be strictly avoided for application purpose.

Shelf life & Storage Condition

12 months from the date of manufacture when store in un-opened pack under normal conditions.

Health & Safety Features

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn (see packaging for specific instructions). Treat any splashes to the skin or eyes with fresh water immediately.

Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Note: The information supplied in our literature or given by our employees is based on extensive experience and, together with that supplied by our agents or distributors, is given in good faith to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of work, we accept no liability for any loss or damage which may arise as a result thereof.

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