

Product Description

La Bond SBR 40 is modified styrene butadiene emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications too.

Uses

For modifying and improving bonding of floor toppings, renderings and mortars; repair of worn, damaged and spalled concrete, repair of large cracks; polymer modified floor screeds; waterproof plasters for masonry and slurries.

Advantages

- Excellent adhesion and bonds well to most common building substrates
- High - Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- Helps in reducing attack by aggressive elements by reducing porosity
- Reduces Permeability and provides waterproof properties in screeds and mortars
- Increases - Improved tensile and flexural properties strength allow thin applications
- Versatile - Compatible with all common hydraulic cements
- Cost effective - La Bond SBR 40 is economical to use

Technical Information

Typical mechanical properties of 1 : 3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing La Bond SBR 40 (5 Litres/50 kg cement).

Tested in accordance with BS 6319 & wet cured.

Specific Gravity	1.01-1.04 @ 27°C	
Mechanical Properties		
Compressive strength (N/mm²)	Control	La Bond SBR (40)
3 days	11.5	12.5
7 days	13.0	14.5
28 days	22.0	24.0
Tensile strength (N/mm ²) @ 28 days	2.5	3.5
Flexural strength (N/mm ²) @ 28 days	5.0	6.5

Note: The mechanical properties are as per Laboratory trials. Cement and aggregate properties Varies at site and mechanical properties will vary accordingly

Application Instructions

Surface Preparation

The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Laitance should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scrubbing, needle gun or grit blasting to provide an adequate key.

Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferably to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

Priming

Reinforcing steel must be primed with La BarCoat EZP immediately after cleaning. The concrete substrate should be thoroughly dampened with water and any excess removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume La Bond SBR 40 to 1 volume water to 3 volumes fresh cement.

In order to obtain a smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement.

Avoid 'puddling' of the slurry coat. The topping must be applied on to the wet slurry. If the slurry dries out it must be removed and the clean substrate re-primed.

Mix Designs

1. Patching and repair mortars and plaster for masonry

Cement	50 kgs
Zone II sand	150 kgs
La Bond SBR 40	3 - 7 kg
Recommended water addition	10 - 15 Litres
Polymer Screed thickness	15 - 50mm

2. La Bond SBR 40 Slurry Coat 1 : 2 : 4

La Bond SBR 40	1 kg
Water	2 Litre
Cement	4 kg

Coverage: The screed should be of a semi-dry cohesive consistency

3. Polymer modified cement grout for injection - La Bond SBR 40 can be used to effectively modify properties of cement grout for crack injection.

The dosage of La Bond SBR 40 shall be in the range of 3 Litre/bag of cement. The injection is carried out as per standard practice

Application

For best results, surfaces should be damp. In order to obtain the protective properties of La Bond SBR 40, it is important that the correct rates of application are observed. Use a short stick brush preferably 120-150mm width and apply the mixed material like paint.

The application of La Bond SBR 40 should not be done if the temperature of the substrate is below 10°C. When applying La Bond SBR 40 on hot substrates i.e., over 30°C surface temperature, saturate the surface with water. Apply La Bond SBR 40 in 2 coats to achieve 1mm thickness. The second coat of La Bond SBR 40 shall be applied as soon as the first coat has reached touch dry state. It is recommended that for general surfacing La Bond SBR 40 should be applied at a minimum thickness of 1mm. Areas subjected to moderate and heavy loads/hydrostatic pressure, minimum 2mm thickness coating is recommended with screed above.

Allow the La Bond SBR 40 coating to dry before covering with screed. Sprinkle coarse sand on wet surface for better adhesion of screed.

Average drying time is 4 to 6 hours at normal temperatures.

Cleaning

A final curing time of 48 hours is adequate at normal working temperatures. Ensure curing is complete before laying thermal insulation boards, mechanical protect and other coverings.

Low temperatures and high atmospheric humidity will slow down the curing rate and vice versa.

Coverage

La Bond SBR 40 Slurry Coat covers approximately 8-10m²/kg in single coat depending on substrate porosity.

Package

La Bond SBR 40 is supplied in 1, 5, 20, 30 & 220KG containers

Precautions & Limitations

La Bond SBR 40 system has a limited resistance to water permeability. To provide effective protection to the building, when used on concrete surfaces, this system should be used in conjunction with La Crete range of Waterproofing Systems.

Shelf Life

18 months if stored under normal warehouse conditions below 35°C, in unopened containers.

Health & Safety

La Bond SBR 40 is non-toxic but alkaline in nature. Gloves and goggles should be worn while handling. Any splashes on the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought.

Fire: La Bond SBR 40 system is non-flammable

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



Smart Solutions for Sustainable Construction

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