

Product Description

Techno Bond SBR 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 - Techno Bond SBR is economical to use

Properties

Typical mechanical properties of 1 : 3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing Techno Bond SBR (5 litres/50 kg cement). Tested in accordance with BS 6319 & wet cured.

Specific Gravity	1.015 to 1.040 @ 27°C	
Mechanical Properties		
Compressive strength (N/mm ²)	Control	Techno Bond SBR
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

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. Laitence should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scabbling, 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 Techno Bar Coat 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 Techno Bond SBR 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 reprimed.

Mix designs:

1. Patching and repair mortars and plaster for masonry

Cement	50 kgs
Zone II sand	150 kgs
TechnoBond SBR	5-9litres
Recommended water addition	11 - 15litres
Recommended thickness	8 - 30mm
2. Techno Bond SBR Slurry Coat 1 : 4 : 7

Techno Bond SBR	1ltr
Water	4ltrs
Cement	7kgs

 Coverage: The screed should be of a semi-dry cohesive consistency
3. Polymer modified cement grout for injection -Techno Bond SBR can be used to effectively modify properties of cement grout for crack injection. The dosage of TechnoBond SBR shall be in the range of 3ltrs/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 Techno Bond SBR, it is important that the correct rates of application are observed. Use a short sti brush preferably 120-150mm width and apply the mixed material like paint.

The application of Techno Bond SBR should not be done if the temperature of the substrate is below 10°C. When applying Techno Bond SBR on hot substrates i.e., over 30°C surface temperature, saturate the surface with water. Apply Techno Bond SBR in 2 coats to achieve 1mm thickness. The second coat of Techno Bond SBR shall be applied as soon as the first coat has reached touch dry state. It is recommended that for general surfacing Techno Bond SBR 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 Techno Bond SBR coating to dry before covering with screed. Sprinkle coarse sand on wet surface of final coating 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

Techno Bond SBR Slurry Coat covers approximately 15-16m²/litre depending on substrate porosity.

Estimating

Techno Bond SBR is supplied in 1, 5 and 20 litre containers

Precautions & Limitations

Techno Bond SBR 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 Techno Crete range of Waterproofing Systems.

Health & Safety

Techno Bond SBR 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

Techno Bond SBR system is non-flammable

Shelf Life

Techno Bond SBR has a shelf life of 12 months if kept in a dry storage in unopened condition.

Important: Technokem 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, Technokem 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.

For Complaints/Suggestions:

Please write to our Customer Care Executive at

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