

Estobond SBR

SBR Emulsion Bonding Agent

Description

Estobond SBR is a single component white, milky emulsion based upon modified SBR type resins.

It is formulated for use with Estopatch concrete repair mortar system and as a bonding agent for concrete and mortar, concrete topping and screed, waterproofing and cementitious slurry.

It is resistant to hydrolysis and therefore can be used in external or internal applications.

Uses

Estobond SBR is a bonding agent for Estopatch or EstogROUT concrete repair system. It may also use as bonding agent for concrete and cement/sand mortar.

Advantages

- Single component.
- Long open times, designed for ease of use under site condition
- Improve mortar cohesion and workability
- Excellent bond strength between polymers modified mortars and concrete
- Cost effective and economical in use
- Improve waterproofing properties
- Water resistant, can be used internally and externally with complete safety
- Reduce permeability of concrete or mortar and improve chemical resistant

Standards Compliance

- BS 7542 : 1992
- BS 5350 : Part C15 : 1990

Physical Properties

Appearance	Milky White
Specific Gravity	1.01 – 1.06

Application instructions

(A) As a bonding agent

Preparation

Successful repairs to reinforced concrete depend on correct surface preparation. Mechanically remove all loose or damaged concrete exposing the full circumference of any corroded reinforcing steel. It is recommended that all repair areas should be defined by a 10mm saw cut to avoid “feather edging” of the repair mortars. Finally pre-soak the repair zone with copious amounts of clean water preferably for a minimum of 1 hour prior to application of the **Estobond SBR**. Remove excess surface water with a stiff brush.

Mixing

Estobond SBR is supplied ready for use. Do not dilute with water or solvents of any kind. Pour milky liquid into suitable container ready for application onto previously prepared substrate.

Application

Saw cut the perimeter of areas to be treated to a minimum depth of 10mm to avoid feather edging of the repair mortar. Loose, contaminated, or damaged concrete should be removed.

Estobond SBR is simply applied by brush ensuring the complete surface is wetted out. Use of a “stippling” action rather than a “painting” action is recommended. The Estopatch repair mortars or concrete should be applied immediately.

Warning

Do not over apply **Estobond SBR** as slippage of the repair mortar may occur in high build applications. The Estopatch repair mortars, concrete or other dry mortar should be applied immediately whilst the primer/ bonding agent is still wet or tacky, reapplying as necessary if **Estobond SBR** dries longer than 8 hours at 20°C.

(B) As a cement modifier

Estobond SBR is used as cement modifier to improve the properties of patching mortars and renders.

The recommended mix designs

OPC : 150 kg
 Zone 2 sand : 150kg
Estobond SBR : 10 litres
 Water : add sufficiently to give required consistency

Typical results of above mixing mortar :

Compressive Strength (N/mm ²) BS 6319	
Control	36
Treated with Estobond SBR	40
Tensile Strength (N/mm ²) ASTM C109	
Control	4.0
Treated with Estobond SBR	4.7
Flexural Strength (N/mm ²)	
Control	8.0
Treated with Estobond SBR	12.0
Adhesion to Concrete (N/mm ²) Slant Shear Bond, BS 6319	
Control	8.0
Treated with Estobond SBR	20.0

Packing & Size

Estobond SBR	20 kg/ pail
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Coverage

Estobond SBR	4 – 6 m ² per kg depend on porosity of substrate
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Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

Technical Support

Estop offers a technical support package to specifiers, end- users and contractors, as well as on-site technical assistance.

Storage

Store in dry & covered condition. Estobond SBR has shelf life of 12 months in an unopened container.

If stored in extreme heat condition, the shelf le may be reduced.

Precaution

Estobond SBR is non-toxic. It is slightly alkaline; therefore, skin contact shall be avoided. Wear gloves and protective clothing.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. in addition, a wide range of products. formulated for repair and refurbishment of spalled concrete are available.