

ISOBOND S.B.R

Product Data Sheet

Description:

ISOBOND S.B.R is a Styrene Butadiene Rubber copolymer based liquid, used in mortar and concrete as an admixture and bonding agent to increase water resistance and durability.

Uses:

- Bonding: For bonding new concrete to old, tile bedding and fixing of slip bricks.
- Waterproofing Internally: Basements, Swimming pools, Potable water tanks, and towers, sludge tanks & ducts, tunnels and underpasses, computer and plant rooms.
- Waterproofing externally: Walls above ground.
- Waterproofing suspended floors: Patios, Walkways and balconies, Floors for wet areas.
- Waterproof bonding: Bricks slips, copings, Precast treads, and risers.
- Waterproof/Protective Slurries: Potable water, sewerage, and mild chemical holding tanks, porous concrete blockwork or brickwork, friable concrete soffits.
- Waterproof non - slip finishes: Car decks, Staircases.
- Bonded and water vapor proof thin screeds: At ground level and on upper floors.
- Protection and repair of spalled or damaged concrete. Beams and panels. Floor patching.
- Topping: A waterproof, weatherproof and dust-free rendering.
- Admixture: As an admixture for cementitious systems ISOBOND SBR improves the durability, waterproofing and abrasion resistance of mortars.

Uses:

- Excellent bond, flexural and tensile strength.
- Excellent resistance to water and water vapor.
- Good abrasion and chemical resistance.
- Excellent bonding to asphalt.
- Thin - screed, which is water/vapor proof.
- Low water/cement ratio.
- Easier site use.



- Compatible with all types of cement.
- Reduces shrinkage.
- Improved flexibility.
- Prevents bleeding.
- Increased durability and toughness.
- Excellent adhesion to steel and concrete.
- Good resistance to salt permeation.
- Good adhesion to brick, glass, asphalt, wood, Expanded Polystyrene and most building materials.
- Prolonged corrosion protection.
- Similar thermal expansion and modulus properties to concrete (unlike resin mortars and primers).
- It can be used with potable water.
- More economical than epoxy or polyester resin mortar.

Technical Properties:

PH 9 :	10.5
Specific gravity :	1.01
Compressive strength:	40 N/mm ² , dependent on cement used and workability.
Tensile strength :	Up to 6.5 N/mm ² , dependent on cement used and workability.
Flexural strength water vapour permeability :	Up to 13 N/mm ² 4 mg/m ² /24hours; through on 1.1 mm ² thick test piece.
Service Temperature :	-20C to +60 C

Application Procedure :

Surface Preparation:

Surface to which ISOBOND SBR mixes are to be applied should be clean, sound and free of loose substances. Remove all laitance, oil, grease, mold oil or curing compound of the concrete surface using a wire brush, bush hammer or other suitable equipment as appropriate. Ensure that reinforcing steel is clean and free from grease or oil, remove scale and rust. When repairing damaged concrete, ensure that the concrete has been cut back to thoroughly sound material.

Bonding slurry:

Wet down absorbent surfaces, such as concrete, brick, stone etc; ensuring that they are saturated but free of surface water. Prepare a bonding slurry of 1 to 2 parts cement to 1 part of isobond SBR, mixed to a lump-free creamy consistency. Using a stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2mm. If a second coat is necessary, it must be applied at right angles to the first to ensure complete coverage. (Approximately 17 -25 lt. of isobond SBR mixed with 50 kg of O.P Cement will give a creamy slurry which will cover 16 - 38sq.mtrs of substance depending on surface texture and thickness applied).

SBR modified mixes:

Sand: Sand should be washed and well graded.

Cement: ISOBOND SBR is compatible with all types of OPC, sulfate resisting and high alumina cement.

Water: The strong plasticizing action of ISOBOND SBR greatly reduces the water-cement ratio for any given workability.

Render to vertical surfaces:

Apply the bonding slurry to the prepared surface and then render immediately with ISOBOND SBR modified mortar. Apply in coats to a maximum thickness of 5mm per coat.

Several coats can be applied at intervals of 20 -30 minutes. The thicker coating can be applied when suitable formwork is used. Finish the surface using a wooden float or steel trowel. Screeds and Topping applied to Horizontal surfaces: Screeds, patches based on ISOBOND SBR modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. It may be trowelled to the required finish using a steel trowel.

Health and Safety:

For normal use with cement sand screed, the standard doses of 12 Litre of ISOBOND SBR for 50 kg of Portland cement are recommended

Health and Safety:

As with all construction chemical product, caution should be always exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance immediately.

Cleaning:

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

Packing:

5 & 200 Liter. drums.

Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf life:

Shelf life is up to 12 months when stored as per recommendations.

*Prior to each use of any product of ISOBIT, its subsidiaries or affiliates ("ISOBIT"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Datasheet which are available at www.isobitiraq.com or by calling ISOBIT's Technical Service Department at +9647501136936. Nothing contained in any ISOBIT literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each ISOBIT product as set forth in the current product label, Product Data Sheet prior to use of the ISOBIT product. ISOBIT warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO***

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T1: +964 750 1136 936.
T2: +964 751 740 1493.
E: info@isobitiraq.com.

ISOBIT for Building Chemicals

www.isobitiraq.com