

Unibond SBR

Waterproofing & Repairing Emulsion

Product Description:

MagicShield - Unibond (SBR) is a modified styrene butadiene liquid emulsion that works as a ready-to-use bonding agent for repairing spalled concrete floors, columns, beams, and slabs. Its bonding capabilities also work well when bonding old concrete and mortar to new layers of concrete and mortar.

In addition to this, MagicShield – UniBond SBR also works great as a waterproofing agent for bathrooms, roofs, underground concrete tanks, walkways, and small terraces by providing a damp-resistant, anti-carbonation coating to the structures. Other use areas for UWB are:

- It can be used as an additive in injection grouting for cracks and fissures
- It works as a great anti-corrosive coating on steel structures
- Ensures long-lasting and waterproof coating when used with cement paint
- Reduces shrinkage resulting in the prevention of cracking, dust build-up and improvement in abrasion resistance
- It works as a great bonding agent for tiles and panels
- As a top finishing for chemical resistant floors
- Is a great fixing agent for slip bricks, tiles, and marble bedding

Packaging:

Available in 200 gm / 1 kg / 5 kg / 20 kg.



Advantages:

- Inbuilt Corrosion Resistance
- Improves Strength
- Makes The Mortar Weather Resistance
- Improves Tensile Strength
- Improves Flexural Strength
- Impermeability To Chlorides
- Prevents Dust Generation
- Compatible with concrete/mortar mixes.
- Suitable for moisture sensitive areas
- No shrinkage cracks
- Protects steel against corrosion
- Easy to use

Suitable For:

- Waterproofing Underground/Overhead Concrete Tanks
- Toilets
- Repairing Spalled Concrete Floors
- Slabs and Cracks in Masonry
- Roofs
- Bathrooms
- Columns
- Beams

Dosage:

10 ltrs of MagicShield – Unibond SBR per 50 kg bag of cement.

Shelf Life:

Factory packed pail of MagicShield – Unibond SBR carries a shelf life of 24 months in its original packaging, if stored in cool & dry place. However, as temperature, humidity, water addition & other parameters vary from site to site, the information should be treated as a general guideline.

Cautions:

- Only add the recommended dosage of water.
- Only use the recommended dosage of MagicShield – Unibond SBR to achieve desired results.

Safety Precautions:

- Avoid contact with eyes or prolonged contact with skin.
- It is recommended to use rubber hand gloves & safety goggles.
- In case of contact with skin, wash the area with plenty of water.
- Keep out of reach of children.

TECHNICAL DATA

Applicable Standard:

Conforms to BS 6319 part 2:1983 & ASTM C 190-85 standards

Performance Properties:

Specific Gravity @ 250°C	1.01+/-0.02
pH Value	7 - 9
Pot Life	30-45 minutes@30°C
Chemical Resistance	Resists to mild acids, alkalis, sulphates.
Freeze Resistance	Excellent Resistance

Working Properties:

Tensile Strength (N/mm ²)	Passes the specification ASTM C 190-85
Flexural strength N/mm ²	>9
Compressive strength N/mm ² (7 days)	Passes the specification BS 6319 part 2:1983

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on usage methods and site conditions

INSTALLATION

Surface Preparation:

The application surface must be compact and consistent, free from oil, grease, corrosion deposit, loose particles or any other foreign material prior to commencement of application of MagicShield - Unibond SBR. To achieve a stronger bond repair the spalled concrete portion by saw and cutting the extreme edges of at least 10 mm to avoid feather edging.

Mixing:

Charge the mixer with required quantity of sand, cement & mix for 1-2 minutes, then add MagicShield-Unibond SBR as per the recommended dosage. Mix carefully with the help of a forced action mixer or a heavy duty handheld mixer machine until the desired mixture is obtained. Mix for 2-3 minutes. Slowly keep on adding water until the required consistency is achieved.

Application

Wide range of mixes are recommended for different kind of application using MagicShield – Unibond SBR. Refer to the table mentioned below.

Cleaning:

Clean the tools and equipment with water after use immediately, only hardened material can be removed mechanically.

No.	Application	Composition	Quantity of MagicShield Unibond SBR	Consistency & thickness
1	Patching & Repair Mortar & dry	OPC – 50 Kg Graded sharp & washed & dry sand – 150 Kg Water – 10 litres	10 litres	Mortar consistency, 6-40 mm thickness
2	Heavy duty floor screed	OPC – 50 Kg Graded sharp & washed sand – 75 Kg Granite chips (3-6 mm) – 75 Kg Water – 6 litres	10 litres	Semi dry cohesive consistency, 10-40 mm thickness
3	Renders	OPC – 50 Kg Graded sharp & washed sand – 150 Kg Water – 6 litres	10 litres	Mortar consistency, 6-9 mm thickness
4	Bonding Mortar for slip bricks & tiles	OPC – 50 Kg Graded sharp & washed sand – 125 Kg Water – 7 litres	10 litres	Mortar consistency, 6-40 mm thickness.