

Shieldbond SBR20

Water-resistant Bonding Agent



MICSHIELD®

Description

Shieldbond SBR20 is a modified styrene butadiene rubber emulsion (SBR), designed to enhance the qualities of cement-based mortars and slurries, ideal for internal and external applications.

Uses

- Bonding fresh to hardened concrete repair mortars.
- As a repair of large cracks, polymer-modified floor screeds, waterproof render, and slurries.
- As primer coat for repair mortars.

Characteristics / Advantages

- Excellent resistance to freeze/ thaw cycles.
- Excellent adhesion and compatibility with concrete and cement-based materials.
- Improves physical properties such as compressive, flexural, tensile, and adhesion strength.
- Improves cohesion of cement mixes.

Standard Compliance

ASTM C1059, Type 1

Shelf Life and Storage

Shieldbond SBR20 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Safety Instructions

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. For further information, refer to the Material Safety Data Sheet.

Typical Properties

Appearance / Color	White liquid	
Specific Gravity @ 23°C	1.00 – 1.03	
VOC (ASTM D2369)	< 1g/L	
Compressive Strength (ASTM C109)	Control 25 MPa	With SBR20 35 MPa
Flexural Strength (ASTM C348)	4.5 MPa	6 MPa

Application Instructions

1. Surface Preparation

The substrate must be sound and clean from dust, oil, grease, loose material, surface contamination, and materials that may reduce bond. Laitance must be removed by mechanical means. Steel substrates shall be free from rust or oxidation.

2. Mixing

By Volume	Bonding Agent Slurry	Waterproofing Additive for site mixed floor screeds, mortars, renders, concrete repair, and floor patching
SBR20	2	1
Clean water	-	1-3*
OPC Cement	3	3
Clean sand	-	6

*Based on moisture content of sand.

Packaging

Shieldbond SBR20 is supplied in 25-liter pails.



3. Application

As a Bonding Slurry:

Shieldbond SBR20 can be applied using a stiff brush or paste scraper. Allow **Shieldbond SBR20** to become tacky then apply the repair/ mortar coat. Don't apply a screed or mortar layer on dry coat.

As Waterproofing Additive:

Apply **Shieldbond SBR20** on the prepared substrate and make sure that the mortar is well pressed, to ensure proper adhesion to the substrate.

4. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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