

Shieldbond AB20

Multi-purpose, Acrylic Bonding Agent and Primer for Cement/ Mortar



Description

Shieldbond AB20 is a single-component, water-based bonding agent and primer for cement-based materials and concrete repairs to improve adhesion and overall performance.

Uses

- Bonding fresh to hardened concrete.
- Improves the adhesion strength of concrete mixes.
- Increases durability of cement-based materials.
- As a primer coat for cement-based floor toppings, polymer-modified floor screeds, and subsequent application of acrylic-based materials such as coatings and waterproofing.

Characteristics / Advantages

- Single component, ready to use.
- Re-dispersible.
- Reduces cracking in mortars and screeds.
- Excellent resistance to freeze/ thaw cycles.
- Excellent adhesion and compatibility with concrete and cement-based materials.
- Improves mechanical properties such as compressive, flexural, tensile, and adhesion strength.

Shelf Life and Storage

Shieldbond AB20 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.

Standard Compliance

ASTM C1059, Type 1

Packaging

Shieldbond AB20 is supplied in 1, 5, 20 and 25 kg buckets

Typical Properties

| | |
|-------------------------|--------------------|
| Appearance / Color | Milky white liquid |
| Specific Gravity @ 23°C | 1.02 ± 0.02 |
| pH | 7 – 9 |
| VOC | < 10 g/L |

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

| | Primer | Bonding Agent |
|-----------------|--------|---------------|
| Shieldbond AB20 | 1 | 1 |
| Clean Water | 1 – 2* | - |
| OPC Cement | - | 1 |
| Clean Sand | - | - |

3. Application

As a Primer:

Shieldbond AB20 should be mixed thoroughly to obtain a consistent liquid and then applied with a stiff-bristled brush, roller, or sprayed onto the substrate to ensure all voids and pores are filled thoroughly. Apply at a rate of 10 – 15 m²/L to the substrate, then apply the next layer; the fresh cement-based topping or repair mortar should be applied within 2 hours of the application of Shieldbond AB20.

High temperatures, direct sun, or wind can shorten the tack-free time.

As a Bonding Agent:

Shieldbond AB20 improves the adhesion strength of cement mixes, mortar, plasters and renders. It can be applied using a stiff brush or paste scraper at a rate of 3 – 4 m²/L while tacky. Do not apply the screed or mortar layer on dry coat.

4. Cleaning

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

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.

Technical Support

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

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