Shieldfix EIFS

Polymer-modified, Fiber-reinforced, Cement-based Adhesive for Thermal Insulation Boards

TECHNICAL DATA SHEET

Description

Shieldfix EIFS is a polymer-modified, cement-based adhesive, supplied as a ready-to-use blend of dry powders, and only requires the addition of clean water. **Shieldfix EIFS** is designed to be used as a high-performance adhesive for the installation of thermal insulation boards.

Uses

- Adhesive for thermal insulation boards; extruded or expanded polystyrene, or mineral wool.
- Indoor and outdoor situations.
- For walls and ceilings.
- Vertical, horizontal, and overhead applications.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix, only requires the addition of clean water.
- Excellent adhesion strength.
- Easy to apply.
- Water and frost resistant.
- Non-flammable.

Packaging

Shieldfix EIFS is supplied in 25 kg bags.

Shelf Life and Storage

Shieldfix EIFS 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

Like any cement-based product, **Shieldfix EIFS** contains hydraulic cement and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.

Typical Properties

Color	Grey
Appearance	Powder
Mixed Density (@ 23°C)	1.55 ± 0.10 g/ml
Working Time (@ 23°C)	1 hour
Compressive Strength (BS EN 1015-11) @28 days	≥ 10.0 MPa
Flexural Strength (BS EN 1015-11) @28 days	≥ 1.0 MPa
Application Thickness	5 – 10 mm
Yield / 25 kg bag	19.5 Liters, covers 4 m^2/ 5 mm thickness

Technical information corresponds to the data, which were obtained at (23 ± 2 °C) temperature and (50 ± 5%) relative humidity.

Application Instructions

1. Substrate Temperature

+5°C to +40°C

2. Surface Preparation

The substrate to receive the insulation must be free from dust, loose material, surface contamination, or any materials that may reduce bond or prevent adhesion.

Cement-based substrates should be in a Saturated Surface Dry (SSD) condition. Any surface water should be removed using an oil-free compressed air jet prior to placing the insulation.

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3. Mixing

Shieldfix EIFS requires 5.25 – 5.50 Liters of potable water per 25 kg bag, depending on the desired consistency. For optimum results, mixing should be performed using a forced-action high-shear mixing paddle, powered by a heavy-duty electric mixing drill.

Add the pre-measured amount of water to a clean mixing bucket. Add **Shieldfix EIFS** powder slowly to the water whilst mixing and continue mixing for 2 – 3 minutes until a smooth, homogenous, lump-free consistency is achieved. Allow this mixture to stand for 2 – 3 minutes and then re-mix for another 1 – 2 minutes prior to use.

4. Application

Shieldfix EIFS is applied to the adhesion face of the insulation only, avoiding coating the sides of the insulation. The method of application depends on the condition of the substrate:

Carding Method (smooth substrate surfaces):

Apply the mixed **Shieldfix EIFS** to the entire adhesion surface and then scrape using a 10-mm notched trowel to leave an even thickness.

Pointing Method:

Apply the mixed **Shieldfix EIFS** to the entire periphery of the board in a ~50 mm wide by 10 mm depth tape leaving a ~5 mm gap to the edges of the back surface. Equally space ~100 mm diameter by 10 mm depth dabs of the mixed adhesive to cover a minimum of 40% of the remaining area.

Affixing Insulation

Immediately after applying the adhesive to the substrate, place the board in position, align and press it firmly to the substrate ensuring that no adhesive gets into the board joints. Do not allow the **Shieldfix EIFS** to form a skin before positioning the insulation board as bond strength will be affected.

Allow **Shieldfix EIFS** to set completely before continuing any additional mechanical fixings, if required, or application of the basecoat.

5. Cleaning

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

6. Curing

Curing is not normally necessary, but freshly applied material should be protected from rain and strong drying winds.

Consumption and Coverage (For 25 kg bags)

Yield: ~ 19.5 Liters

Consumption: 1.25 – 1.30 kg/m^2/mm thickness.

Coverage: 19 – 20 m^2/25 kg bag/mm thickness

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing and use chilled mixing water.

Technical Support

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

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