

Shieldfix D1



High Performance Acrylic Tile Adhesive – Ready-to-Use

Description

Shieldfix D1 is a high-performance, ready-to-use acrylic tile adhesive developed for fixing ceramic tiles on vertical surfaces. It consists of mineral fillers, reinforced with a styrene-acrylate polymer system, and modified with advanced additives to ensure strong bonding, smooth application, and long-lasting results.

Uses

- Fixing ceramic and porcelain tiles on walls and floors in residential and commercial spaces.
- Ideal for indoor wall tiling over a wide range of substrates:
 - Smooth or fair-faced concrete
 - Lightweight concrete blocks
 - Plasterboard and gypsum panels
 - Wooden substrates such as chipboard and plywood
 - Traditional sand-cement renders and screeds

Characteristics / Advantages

- Ready to use, no mixing required.
- Very good adhesion to various substrates.
- Non-sagging characteristics, suitable for vertical applications.
- Low shrinkage characteristics.
- Low VOC.
- Environmentally friendly.

Packaging

Shieldfix D1 is supplied in 5 kg buckets.

Shelf Life and Storage

Shieldfix D1 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

Shieldfix D1 may cause irritation to the skin or eyes. Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage, and disposal of the product.

Typical Properties

Appearance / Color	Natural white paste
Mixed Density (@ 23°C)	1.55 ± 0.1 g/ml
Open Time	~ 20 minutes
Ready for Grouting	24 hours
Ready for Use	7 days
Application Temperature	+5°C to +35°C
Tensile Adhesion (Initial) (EN 12004-2, 8.3)	≥ 0.50 MPa

Application Instructions

1. Surface Preparation

The substrate must be sufficiently cured to avoid any shrinkage cracks, and clean from dust, oils, dirt, curing compounds, etc. Any damages or defects should be repaired using a suitable solution from **Shield Range**; for concrete or cement-based surfaces, **Shieldputty W20 or G20** can be used. For Gypsum and plaster surfaces, **Shieldjoint AC4** should be used, and **Shieldbond AB30** should be used for porous substrates.

2. Mixing

Shieldfix D1 should be thoroughly stirred prior to application, to ensure a homogenous mixture.

3. Application

Apply the adhesive using the notched trowel and spread it evenly onto the surface to obtain good coverage. Then using the notched side of the trowel, comb the adhesive to obtain an even setting bed. Cover the surface uniformly with sufficient adhesive without bare spots and press the tiles firmly into the adhesive to ensure a thickness of 1- 3 mm between the tile and the substrate after the tile has been placed. Position the tiles by pressing and slightly twisting them into place. Apply adhesive only in areas that will be covered with tiles before the adhesive films over. Remove any adhesive that films over and apply fresh adhesive.

4. Tile Fixing

Press the tile into the freshly combed adhesive, ensuring adhesive contact with the tile. Maintain joint alignment and spacing and keep an adequate joint depth open for grouting. It is recommended to periodically remove and check a tile to ensure proper adhesive coverage. Allow **Shieldfix D1** to dry completely before grouting with **Shieldfill CG2**. Provide for expansion and movement joints according to design requirements. Do not apply adhesive over such joints.

5. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed. Wipe off any excess adhesive from tile surfaces using a damp sponge before it sets.

Technical Support

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

Consumption and Coverage

3.00 kg/m²/3 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 application.

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