

Shieldfix Mortar

Cement-based, Polymer-modified Thick-set Mortar



Description

Shieldfix Mortar is a pre-mixed, cement-based, thick-set tile mortar, supplied ready to use as a pre-bagged dry powder that requires the addition of clean water on-site. **Shieldfix Mortar** is used for laying porcelain, ceramic, terrazzo, and natural stone on concrete and cement mortar substrates, in addition to installing masonry and concrete blocks.

Uses

- Installing ceramic and porcelain tiles, terrazzo, and natural stones on concrete and masonry substrates.
- As a bedding mortar for concrete blocks/ masonry units.
- Indoor and outdoor uses.
- Provides a mortar bed for ceramic and natural stone tile setting.
- General non-structural concrete repairs.
- Commercial and industrial applications.

Characteristics / Advantages

- Ready to use, only requires the addition of clean water on site.
- Economical.
- Provides high-strength surfaces, ideal for tiling commercial and industrial installations.
- Easy to mix and apply.
- Suitable for different types of tiles, such as ceramic, porcelain, terrazzo, natural stone, and so on.

Shelf Life and Storage

Shieldfix Mortar 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.

Typical Properties

Color / Appearance	Grey granular powder
Fresh Wet Density (@ 23°C)	1.80 ± 0.10 g/ml
Maximum Aggregate Size	2.00 mm
Application Thickness	10 – 40 mm
Working Time	~ 30 minutes
Curing Time	72 hours
Ready for Grouting & Light Traffic	≥ 24 hours
Ready for Heavy Vehicular Traffic	7 – 10 days
Flexural Strength (EN 1015-11) @28 day	> 1.5 MPa
Compressive Strength (EN 1015-11) @ 7 days	15 MPa
@ 28 days	25 MPa

Packaging

Shieldfix Mortar is supplied in 25 kg bags.

Safety Instructions

Shieldfix Mortar contains hydraulic cement and 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.

Application Instructions

1. Surface Preparation

The substrate should be sufficiently cured to avoid any shrinkage cracks, and clean from dust, oils, dirt, curing compounds, etc. The substrate should be dampened, and excess water removed before application.

2. Mixing

Pour 4.50 – 5.0 liters of clean water into a suitable container for each 25 kg bag of **Shieldfix Mortar**. Add the **Shieldfix Mortar** powder to the water and mix using a low-speed mixing drill fitted with a suitable mixing paddle. Mix for 2 – 3 minutes until a smooth, lump-free consistency is achieved. Allow the mixed material to stand for 2 – 3 minutes, then re-stir slightly with no extra water added to the mix.

3. Application

Tile Fixing:

Apply the mortar at a thickness of 10 – 40 mm into the substrate using the flat side of a notched trowel and comb to obtain an even-setting bed using the notched side. Apply a 2 – 3 mm thickness layer to the back of the tile (back-buttering) to ensure good coverage and adhesion. Only spread a quantity that can be tiled directly after troweling. During use, occasionally remix the mortar. Additional water or fresh materials shall not be added after initial mixing. Press the tile firmly into the freshly combed mortar, ensuring proper contact with the tile. Maintain joint alignment and spacing and keep an adequate joint depth open for grouting.

The general recommended bed thickness is 20 – 40 mm, depending on the type of tile being laid. It is recommended to periodically remove and check a tile to ensure proper mortar coverage.

Bricks and Masonry installation:

Apply the mixed material of **Shieldfix Mortar** to the prepared surface manually using a spatula or hand trowel at 10 – 40 mm thickness. Mortar must be 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.

5. Curing

Curing is not normally necessary, but freshly applied material should be protected from rain and strong drying winds. Curing time depends on ambient temperature, substrate temperature, and relative humidity.

Consumption and Coverage (For 25 kg packs)

Yield: 14 Liters

Consumption: ~ 1.75 – 1.80 kg/m²/mm thickness.

Coverage: ~ 13.50 – 14.0 m²/25 kg bag/mm thickness

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Do not apply directly over certain tile types, such as wood, metal, fiberglass, plastic, panels, lightweight concrete, gypsum underlayment, chipboard, hardwood, or parquet floors.
- 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 before 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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Version 250806 SP-AF Fix Mortar-002