

UniFix® 300

Cement-based, thin bed, ceramic tile adhesive mortar

Description

UniFix 300 is a single component, cement-based, polymer modified, thin bed tile adhesive mortar. When mixed with water, it provides adhesive mortar with unique workability properties, water retention and adhesion.

Features and benefits

- Good anti sagging properties.
- Excellent workability with long open time.
- Good adhesion bond strength.

Recommended for

UniFix 300 is ideal for fixing medium sizes ceramic tiles. It is also used for fixing wide range of tiles such as terrazzo tiles, natural stone cladding and quarry tiles.

UniFix 300 can be used internally for fixing wall and floor tiles and externally for fixing floor tiles. The ideal substrates are: concrete, cement-based screeds and renders. It is also used for laying aerated concrete blocks.

Main application areas include:

- Wet areas such as bathrooms, kitchens, balconies and shower rooms.
- Heavy foot traffic areas such as classrooms and institutes.

Composition

UniFix 300 is composed of high strength Portland cement, well graded silica sand, mineral charges and compound of chemicals to improve adhesion and workability.

Packaging

UniFix 300 is available in 20 & 25 kg bags.

Coverage

4 kg/m².

Note:

Coverage rate takes no account of wastage and may vary according to surface condition and application method.

Technical data

| | |
|--|-------------------------|
| Powder density | 1.65 kg/liter |
| Initial tensile adhesion strength. EN 12004-2-2017 | >0.8 N/mm ² |
| Tensile adhesion strength after 20 days water immersion. EN 12004-2-2017 | >0.8 N/mm ² |
| Tensile adhesion strength after 14 days heat aging at 70°C. EN 12004-2-2017 | >0.7 N/mm ² |
| Tensile adhesion strength after freeze-thaw cycles (25 cycles). EN 12004-2-2017 | >0.55 N/mm ² |
| Tensile adhesion strength after 20 minutes. EN 12004-2-2017 | >0.51 N/mm ² |
| Pot life | 120 minutes @ 20°C |
| Colors | Grey - white |

UniFix 300 complies with the requirement of EN 12004 - C1.

Surface preparation

Substrates should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials.

It should be sufficiently cured so that any shrinkage has already occurred.

Rough or un-even surfaces should be made flat to provide a wood float finish.

Blow-holes and depressions shall be filled with a scrape coat of **UniFix 300**.

Wash the substrate with clean water.

Ensure that the substrate and tiles are dry at the time of application.

Mixing

UniFix 300 mortar can be obtained by mixing with clean water as follows:

| | 20 kg bag | 25 kg bag |
|--------------|-----------------|-----------------|
| Mixing water | 4.4±0.25 liters | 5.5±0.25 liters |

If exceptional performance is required (i.e., submerged, external walls application...etc.), **UniBond 865** could be added as follows:

| | 20 kg bag | 25 kg bag |
|--------------------|------------|------------|
| UniBond 865 | 1.5 liters | 1.9 liters |

Add the mixing water into clean container. Then add **UniFix 300** powder while mixing. Mix using slow speed drill fitted with suitable mixing paddle or a high shear stationary mixer. Mix to produce homogeneous lump-free mortar.

Leave **UniFix 300** mortar to stand for 3 minutes. Do not over mix. MIX AND USE.

Mix material that can be applied within 120 minutes (pot life).

Partial small amounts may be mixed manually using suitable hand tools.

Application

Do not apply **UniFix 300** in direct sunlight or if the ambient temperature is below 5°C. Avoid exposure to rain, wind or direct heat which may impair the setting of the tile adhesive.

Use notched trowel application technique for fixing ceramic tiles on walls.

Solid bed application technique is recommended for floor applications.

Apply **UniFix 300** evenly on the substrate at application thickness between 3 and 8 mm. Apply mortar over areas up to 1 m².

UniFix 300 may be applied also on the back of the tiles to ensure full adhesive contact.

Press tiles firmly into place and gently adjust the level by twisting slightly within 15 minutes during the adhesive open time.

Leave 2 mm minimum width around the tiles (or as per design).

Ensure proper distribution of the mortar, at least 85%, to the back of the tile.

Check periodically to ensure proper transfer by lifting tiles occasionally.

Clean the face of the tiles with damp sponge while the mortar is still fresh.

Grouting of the tile joints can be made after 24 hours minimum using **UniGrout 333/350** (according to joint width).

Important notes

- For porous substrates, apply one coat of **AcrySeal 799** as a penetrating sealer coat to seal the prepared substrate and improve the adhesion (optional).
- Do not apply if ambient temperature is below 5°C or higher than 40°C.
- Do not apply on substrates that are subject to water leakage.
- Do not stir or add water to existing material that has already set in order to make it workable again.

Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically.

Storage and shelf life

To maintain its quality and suitability for use, the product should be stored in its unopened packaging, off the ground on pallets or similar structures, in a cool and dry environment. When stored under these recommended conditions, the product remains suitable for use for 12 months from the manufacturing date stated on the packaging.

Health and Safety

This product contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention. Dispose excess material to special waste collection point in

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accordance with local & national regulation.

Keep out of reach of children.

For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.

More from ACC

A wide range of construction chemicals, specialty mortars and specialized building materials are manufactured by ACC which include:

- Waterproofing.
- Flooring.
- Tile Adhesives & Grouts.
- Concrete Repair.
- Non-Shrink Grouts.
- Bonding Agents.
- Exterior Façade Coatings.
- Premixed Fairing Coats, Renders & Mortars.
- Putties (stucco).
- Sealers & Emulsion Paints.