

UniFix® 303

Cement-based, tile adhesive mortar for fixing ceramic and porcelain tiles

Description

UniFix 303 is a single component, cement-based, polymer modified, thin bed, tile adhesive mortar. When mixed with the correct quantity of water, it provides adhesive mortar with unique workability properties, water retention and adhesion.

Features and benefits

- Good anti sagging properties.
- Water resistant.
- Excellent workability with long open time.
- Can be used as thin bed adhesive mortar up to 8 mm thickness.
- High adhesion bond strength.

Recommended for

UniFix 303 is ideal for fixing large size ceramic, porcelain and decorative mosaic tiles. It is also used for fixing normal size marble tiles and stone cladding without mechanical fixation. **UniFix 303** can be used for fixing walls and floors tiles both internally and externally. It may be used to fix ceramic tiles onto old ceramic tiles' surfaces.

The ideal substrates are concrete, cement-based screeds & renders, old ceramic and terrazzo tiles.

Main application areas include:

- Submerged conditions such as swimming pools and water tanks.
- Wet areas such as bathrooms, shower rooms, kitchens and balconies.
- Heavy foot traffic areas such as classrooms and institutes.

Composition

UniFix 303 is composed of high strength Portland cement, well graded silica sand, mineral charges and compound of chemicals to improve adhesion and workability.

Packaging

UniFix 303 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 set ASTM C266, ANSI 118.4	6 hours 30 minutes
Initial set at 100°F ASTM C266, ANSI 118.4	1 hour 33 minutes
Final set ASTM C266, ANSI 118.4	13 hours 7 minutes
Final set at 100°F ASTM C266, ANSI 118.4	2 hour 7 minutes
Room temperature open time	77 minutes
High temperature open time	41 minutes
Compressive strength ANSI 118.4	>180 kg/cm ²
Initial tensile adhesion strength. EN 12004-2- 2017	>1.4 N/mm ²
Tensile adhesion strength after 20 days water immersion. EN 12004-2-2017	>1.4 N/mm ²
Tensile adhesion strength after 14 days heat aging at 70°C. EN 12004-2-2017	>1.3 N/mm ²
Tensile adhesion strength after freeze- thaw cycles (25 cycles). EN 12004-2-2017	>1.1 N/mm ²
Tensile adhesion strength after 20 minutes. EN 12004-2-2017	>1.0 N/mm ²
Colors	Grey - white

UniFix 303 complies with the requirement of EN 12004 – C2.

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 303**.

Wash the substrate with clean water.

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

Mixing

UniFix 303 mortar can be obtained by mixing with clean water as follows:

	20 kg bag	25 kg bag
Mixing water	4.3±0.25 liters	5.4±0.25 liters

Add the mixing water into clean container, and then add the **UniFix 303** powder while mixing. Mix using slow speed drill fitted with suitable mixing paddle or a high shear stationary mixer. Partial small amounts may be mixed manually using suitable hand tools.

Mix to produce homogeneous lump-free mortar.

Leave **UniFix 303** mortar to stand for 3 minutes. Do not over mix. MIX AND USE. Mix material that can be applied within 120 minutes (pot life).

Application

Apply **UniFix 303** evenly on the substrate at application thickness between 3 and 8 mm. Apply mortar over areas up to 1 m².

UniFix 303 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

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

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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 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.

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