

## 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 kg bags.

#### Coverage

4 kg/m<sup>2</sup>.

#### 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 <sup>2</sup>
Initial tensile adhesion strength. EN 1348*	>1.0 N/mm <sup>2</sup>
Tensile adhesion strength after 20 minutes. EN 1348*	>1.0 N/mm <sup>2</sup>
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 is damp but not wet at the time of application. Ensure that the tiles are dry at the time of application.

## Mixing

**UniFix 303** mortar can be obtained by mixing 20 kg bag of **UniFix 303** with 4.3±0.25 liters of clean water. If exceptional performance is required (i.e., heavy weight tiles or vibration), mix 20 kg bag of **UniFix 303** with 1.50 liter of **UniBond 865** and enough quantity of water till you reach the right mortar consistency.

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 for 3-5 minutes till a fully homogeneous mortar consistency is achieved. Leave **UniFix 303** mortar to stand for 5 minutes. Re-mix again for 2 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 m<sup>2</sup>.

**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).

## Cleaning

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

## Storage and shelf life

If stored unopened in a dry place at a temperature between +5°C and +30°C away from sources of heat and moisture, shelf life is 12 months from the date of manufacture printed on the pack.

## 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 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](http://www.acc.com.eg).***