



## Weber.set Ultra-Flex

A highly deformable, quick setting, high strength cement-based tile adhesive for all types of tiles



20kg

### About this product

**weber.set Ultra-flex** is a highly deformable, high strength, rapid-set cement-based tile adhesive for wall and floor applications. Produced from carefully selected raw materials for consistency of product, it only requires the addition of water on site.

### Technical services

**Weber** has a team of experienced advisors available to provide technical support. Technical helpline: 08600 **Weber** (93237) or visit [www.weber-tylon.co.za](http://www.weber-tylon.co.za)

### Technical data

Initial setting time	approximately 3 hours
Final setting time	approximately 6 hours
Correction time	approximately 20 minutes
Open time	approximately 20 minutes
Pot life	approximately 1 hour
Grouting time	approximately 6 hours
Water demand	approximately 5 litres per 20 kg
Temperature resistance	70°C
Application temperatures	Do not apply in temperatures below 5°C or above 30°C

Note: all the data given was obtained at a temperature of 23°C and 50% relative humidity.

#### TYLON Ultra-flex is designed to meet the following SANS 52004 related performance values

• Reaction to fire	Class A1/A1
• High initial tensile strength	≥ 1.0 N/mm <sup>2</sup>
• High tensile adhesion strength after heat ageing	≥ 1.0 N/mm <sup>2</sup>
• High tensile adhesion strength after water immersion	≥ 1.0 N/mm <sup>2</sup>
• High tensile adhesion strength after freeze/thaw	≥ 1.0 N/mm <sup>2</sup>
• Open time: tensile adhesion strength (after no less than 10 min)	≥ 0.5 N/mm <sup>2</sup>
• Highly deformable: transverse deformation	≥ 5 mm

### Packaging

**weber.set Ultra-Flex** is supplied in 20 kg bags.

### Use

**weber.set Ultra-flex** is used for fixing Porcelain, dark Marble, Granite, Ceramic, Stone, Brick and Clay tiles.

- Suitable for walls and floors
- Suitable for interior and exterior use
- Do not use this product on white or light coloured Marble or porous Porcelain tiles, as it might cause discolouration of the tiles. **weber.set White** is recommended for this purpose.
- The 6 hour set makes it ideal for quick installations.

It is most suitable for levelling and repairing surfaces with depressions up to 8 mm before applying tiles.

### Features and benefits

- 6-hour set
- Adhesive designed to absorb lateral movement
- Interior and exterior application
- Can be applied up to 20 mm thick
- Suitable for wall and floor use
- Suitable for use with under floor heating
- Suitable for tiling over timber flooring and existing Ceramic and Porcelain tiles
- Consistent quality - ISO 9001 and 14001 accredited manufacturer

### Coverage

Depending on the nature and evenness of the surface and method of application, approximately 6 m<sup>2</sup> per 20 kg bag when applied using a 6 mm notched trowel (wall tiling) and 4 m<sup>2</sup> per 20 kg bag when applied when using a 10 mm notched trowel (floor tiling) ie: based on a level/even floor.

### Suitable surfaces

**weber.set Ultra-flex** ensures a flexible bed on critical surfaces like:

- Pre-cast concrete
- Post tensioned floors
- Heated screed
- Tile on tile applications
- Power-floated floors

## Surface preparation

The following minimum curing periods should be observed before tiling commences:

- New concrete floors: 28 days
- Newscreeds: 28 days
- New brick walls: 28 days
- New plaster walls: 28 days

The walls or floors to be tiled must be wood-floated and not steel-trowelled or power-floated. Ensure that all surfaces are clean, dry, sound and free from dust, grease or any contamination that could impair bonding. Make good any unsound areas and remove flaky or peeling layers before tiling. Organic growth must be removed and the spores killed using household bleach. PVA paint and gypsum plaster must be chipped to expose 80% of the substrate.

Enamel paint and bitumen should be scraped and chipped to expose 80% of the substrate. Do not use a solvent or heat to remove bitumen from the surface. Existing tiles must be thoroughly cleaned using a suitable cleaner. Rinse well with cold water. Smooth-, off-form-, shutter- or power floated cement surfaces should be acid washed to remove laitance. Rinse well with cold water. Once the surface preparation has been completed on the above problem surfaces, the area must be primed using a mix of 2 volumes of **weber.prim Plaskey WB250** and 1 volume of **weber.ad Key-it WB117**. Apply to a thickness of approximately 2 mm using a block-brush. Leave to dry for 24 hours.

## General

- Tiles should be installed providing for adequate movement joints. Movement and expansion joints to be provided for at approximately 3 m centres externally or at 4 m centres internally in both directions or as per the engineer's specifications.
- All expansion and movement joints in the substrate must extend through the adhesive bed and tiles.
- Tiles must have full contact with the adhesive, leave no voids.
- Use only dry tiles - do not soak tiles.

## Mixing

- Combine a 20 kg bag of **weber.set Ultra-flex** with **5 litres** of clean water and stir until completely free of lumps.
- Allow the mixture to mature for 5 minutes and re-mix thoroughly. The consistency can be adjusted by adding a small amount of water.
- Do not add too much water or attempt to extend the working time by adding more water as this will cause the adhesive to be weak with a tendency to crumble.
- Do not mix more adhesive than can be applied within 1 hour.

## Application

Spread adhesive using a notched trowel to a minimum bedded thickness of 3 mm on walls and 6 mm on floors. Heavily lugged, grooved or dove-tailed tiles must be back-buttered to fill any voids with adhesive before placing into wet adhesive. Press tiles firmly into wet adhesive with a twisting action. Use a rubber mallet to bed large or heavy tiles. Occasionally lift a tile to check that full contact is being made between the tile and the adhesive. Do not butt joint tiles.

Clean excess adhesive off the surface once tiles are firmly set using a damp sponge. Once the adhesive has hardened, only mechanical removal is possible. Minimum grouting joints for walls is 2 mm and 3 mm for floors. Adhesive must be allowed to dry for 6 hours before grouting commences.

## Grouting

Ensure that the joints are free from tile adhesive and any other foreign matter. Allow 6 hours before grouting with **weber.grout Tile Grout WB33**. Allow 48 hours for sealed or non-porous surfaces. In wet or permanently wet conditions, replace the water in the mix with **weber.ad Bond-it WB183**.

## Storage and shelf life

When stored, unopened in a dry place at temperatures above 5°C, shelf life is 9 months from date of manufacture.

## Safety instructions

Contains cement, which is alkaline when wet and can cause skin irritation. Use eye protection and gloves and avoid prolonged skin contact. Avoid inhalation of dust. Wash skin contamination away with warm soapy water. Remove splashes to the eyes by prolonged irrigation and consult a doctor. Do not ingest.

## Guarantee

We agree that **Weber** products meet the product specifications and will be free from any defect. Any guarantee with regard to the performance of Weber products will be subject to its professional and practical application of Weber products in accordance with our instructions and specifications. However, we have no influence over specific site conditions and therefore, if in doubt, the user should first carry out sufficient tests to ensure that the product is suitable. In special cases, obtain advice. Should our product prove defective, we undertake to replace any defective material. This guarantee will fall away in the event of Weber products being contaminated by the addition of sand, cement or substance other than recommended by us.