# KERAQUICK XL FIBRELITE

**Fibre reinforced high yield cement based rapid setting adhesive for interior and exterior use when installing porcelain, ceramic and natural stone materials**




## CLASSIFICATION IN COMPLIANCE WITH EN 12004

**Keraquick XL Fibrelite** is a Cementitious (C), Improved (2), Fast Setting (F), Deformable (S1) adhesive classified as C2F S1 available in Grey and White.

## WHERE TO USE

Interior and exterior bonding of ceramic and porcelain tiles and mosaics and natural stone materials that are not sensitive to moisture. Ideal for large format tiling.

### Some application examples

- Fixing tiles up to 1500 x 1500 mm in size.
- Installation on to suitably prepared timber substrates such as 15mm overlaid plywood floors.
- Suitable for use in large commercial environments.
- Suitable for internal and external use.
- Installing marble and natural stone materials.
- Suitable for installation over wet and electrical underfloor heating systems.
- Suitable for installation of tile on prepared calcium sulphate screeds (anhydrite).

## TECHNICAL CHARACTERISTICS

**Keraquick XL Fibrelite** is a powder composed of a mixture of special cements, selectively graded aggregates, synthetic resins, fibres and setting accelerators that develop a high bond strength only 90 minutes after setting. For this reason floor installations can be completed very quickly. Floors can be walked on after only 90 minutes and are ready for general foot traffic after 12 hours. When hardened **Keraquick XL Fibrelite** is frost and water resistant.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must be dry, flat, mechanically strong, sound, free from loose areas, grease, oil, paint, wax, old flooring adhesive and bitumen residues and any other contamination (e.g. plaster droppings), which may affect the adhesion. Damp substrates may lengthen the adhesive setting time. Cementitious substrates must be cured and any shrinkage process must be at an end before tiles are installed. Concrete must be at least 6 weeks old, cement based screeds for at least 3 weeks unless they have been produced using the special MAPEI binders

**Mapecem** or **Topcem** or with a preblended screed mix such as **Mapecem Pronto** or **Topcem Pronto**. The substrate surface should ideally be open textured. Powerfloated concrete should be mechanically abraded (scabbled or shot-blasted) to open up the surface and to remove any curing agents. Heated screeds must be commissioned in accordance with recognised technical regulations and the guidelines given in BS 5385 parts 3, 4 and 5. The commissioning process must be carried out before the installation of tiles or stone finishes. Calcium sulphate screeds must be dry to a moisture content of 0.5% w/w when measured using the carbide method. All surface laitance must be removed by mechanical abrasion and all dust thoroughly removed by vacuum. Prime the surface with **Eco Prim T Plus** (diluted 1:2 with water) or alternatively **Primer G** (neat). Tilebacker boards must be installed to provide a firm, stable substrate with no protruding fixings. Plywood overlaid floors must use a minimum 15 mm exterior grade plywood and be fixed at minimum 300 mm centres in all directions to provide a rigid substrate. Prime with **Eco Prim Grip Plus**.

In areas subject to extreme damp (showers etc) Mapei **Mapegum WPS**, **Mapelastic Aquadefense** or **Mapeguard WP 200** should be used to waterproof the substrate. Not suitable for areas subject to flexing or vibration, or bonding tiles to metal surfaces.

### Mixing

**Keraquick XL Fibrelite** must be mechanically mixed in a clean vessel with clean water until a smooth lump free paste is obtained. Allow the product to stand for 2-3 minutes before re-mixing. The product must be used within 40 minutes. **Keraquick XL Fibrelite** 15 kg should be mixed with 5.1-5.4 litres of clean water.

### Applying the product

**Keraquick XL Fibrelite** is applied to the substrate with a notched trowel to a max 15 mm in thickness. Adhesive coverage will be determined by the notch size chosen and should be 100% as far as possible for floors, exterior and wet areas. For tiles exceeding 300x300 mm **Keraquick XL Fibrelite** should also be applied to the backs of the tiles (back-buttering). For very absorbent surfaces or during hot weather the substrate should be dampened to extend the open time of the adhesive. It is not necessary to wet the tiles before fixing, however if the backs of the tiles appear dusty they should be wiped over with a wet sponge.
**Keraquick XL Fibrelite** has an open time of 15-20 minutes in normal temperature and humidity; unfavourable weather conditions (strong sun, drying wind, high temperature), or a highly absorbent substrate will shorten this open time, sometimes to just a few minutes. Should the adhesive form a skin it should be removed and fresh adhesive applied. Tiling fixed with **Keraquick XL Fibrelite** must not be subjected to washout or rain for at least 60 minutes and protected from strong sun and frost for at least 12 hours.

### Grouting

Tile joints can be grouted after 2-3 hours with a suitable MAPEI cementitious grout. If the joints require better chemical resistance or where hygiene is of importance use a suitable MAPEI Epoxy. Expansion joints should be filled with MAPEI **Mapesil AC** or **Mapesil LM**.

## SET TO LIGHT FOOT TRAFFIC

Floors are able to take light foot traffic after approximately 90 minutes.

## READY FOR USE

Floors are ready for use after approximately 12 hours.

## Cleaning

Tools and hands can be cleaned with water, tiled surfaces should be cleaned with a damp cloth; water should only be used in moderate quantities and after a few hours.

## CONSUMPTION

6-8 $m^2$ depending on bed depth.

## PACKAGING

**Keraquick XL Fibrelite** is supplied in 15 kg paper bags.

## STORAGE

**Keraquick XL Fibrelite** should be stored in a dry place, where it will have a maximum shelf life of 12 months in original unopened packaging.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk.

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA

| TECHNICAL DATA (typical values)<br>In compliance with:<br>EN 12004 - C2F S1 | |
|---|---|
| **PRODUCT IDENTITY** | |
| **Type:** | powder |
| **Colour:** | grey or white |
| **Density:** | 1.2-1.35 |
| **Viscosity:** | 350-450 |
| **Mixing ratio:** | - grey 36-38<br>- white 36-38 |
| **Consistency:** | semi fluid |
| **Pot life:** | 40 minutes |
| **Application temperature range:** | from +5°C to +30°C |
| **Open time:** | 15-20 minutes |
| **Set to light foot traffic:** | 90 minutes |
| **Ready for use:** | 12 hours |
| **Tensile strength:**<br>**– initial 28 days:**<br>**– after heat ageing:**<br>**– after water immersion:**<br>**– after freeze thaw:** | > 2.00<br>> 2<br>> 1<br>> 1 |

## N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. End users should ensure that our latest product data and safety information sheets have been consulted prior to use

**Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk**

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