



**High performance,
deformable, fast setting,
non-slip cementitious
adhesive for the
installation of ceramic,
porcelain and stone tiles
and mosaics**

CLASSIFICATION IN COMPLIANCE WITH EN 12004

Keraquick is an improved (2) fast setting (F) cementitious (C) adhesive and slip resistant (T) and deformable (S1) classified as C2FT S1.

Conformity of **Keraquick** is declared in **ITT** certificates no. **25080059/Gi (TUM)** and no. **25080063/Gi (TUM)** issued by the Technische Universität München laboratory (Germany).

WHERE TO USE

Bonding to cement-based and calcium sulphate based screeds, concrete, plywood overlay, existing unglazed ceramic floor tiles, cement-based renders, gypsum plaster, plasterboard, tilebacker boards.

- For interior and exterior use.
- For the installation of ceramic and porcelain tiles and mosaics. For natural stone not sensitive to moisture.
- Suitable for the installation of glass tiles and mosaics. Mix with **Latex Plus** where the glass has a coating on the rear.
- For the installation of insulating materials such as expanded and extruded polystyrene panels, gypsum boards, glass and rockwool, Eraclit®, aerated concrete blocks, sound deadening panels.

Some application examples

- Renovation in heavily trafficked areas and where surfaces need to be quickly back in service, such as public buildings, motorway services, pedestrian walkways, supermarkets, showrooms, airports etc.
- Rapid installation or renovation in swimming pools, industrial plants (breweries, wine cellars, dairies etc.), refrigeration units.
- Rapid installation in bathrooms, showers, kitchens, conservatories and on balconies and terraces.
- The installation of tiles externally in autumn / winter where night time temperatures drop below +5°C. See note below.

- The installation of tiled finishes to underfloor and undertile heating systems.
- The installation of non-absorbent floor tiles over existing floors, where a standard setting adhesive would be too slow.
- The installation of natural stone materials including light coloured stone (use **Keraquick** white for the latter).
- The installation of MAPEI **Mapetex** anti-fracture membrane (when fixed with **Keraquick** mixed with **Latex Plus**).

Note: When fixing tiles at lower temperatures the pot life and setting time may be extended beyond 2 hours. In autumn / winter temperatures only fix tiles when the substrate and ambient temperature is above +5°C. When fixing externally ensure that the adhesive is applied during the warmest part of the day and that it will have cured sufficiently before temperatures drop below +5°C. Protect exposed tiled areas from frost by covering with appropriate materials.

TECHNICAL CHARACTERISTICS

Keraquick is a grey or white powder composed of a blend of special cements, selectively graded aggregates, synthetic resins and accelerators, which develop high bond strength 2-3 hours after mixing.

These properties allow floors and walls tiled using **Keraquick** to be grouted after only 2 hours. Floors can also be subjected to light foot traffic after 2 hours and full service conditions after 24 hours. Where floors are to be subjected to heavy duty use, such as cherry pickers, the floor tiling should have been allowed to cure for a minimum of 7 days.

Mixing **Latex Plus** with **Keraquick** improves the deformability to meet the requirements of class S2 (highly deformable) in accordance with EN 12002.

RECOMMENDATIONS

Use **Keraquick** mixed with **Latex Plus** in the following cases:



Keraquick

- on plywood substrates fixed direct to joists (minimum 18 mm plywood);
- for bonding tiles to tongue and groove floorboards or chipboard;
- for bonding tiles to existing glazed / porcelain tiles;
- for bonding tiles to well-bonded existing vinyl floor tiles;
- for bonding tiles to steel substrates.

Do not use **Keraquick** in the following cases:

- on metals (except steel), rubber, cork, PVC sheet and linoleum;
- for bonding expanded polystyrene insulation panels with a protective film / vapour barrier.

APPLICATION PROCEDURE

Preparing 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 **Keraquick**'s setting time.

Cementitious substrates must be cured and any shrinkage process must be at an end before tiles are installed. Renders should be cured for at least 2 weeks, concrete 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 pre-blended 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 4 and 5. The commissioning process must be carried out before the installation of tiles or stone finishes.

Gypsum plaster should be at least 4 weeks old and primed with **Primer G**. Note: over-trowelled plaster surfaces should be lightly abraded to provide a key before priming. 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** (diluted 1:2 with water) or alternatively **Primer G**.

Plasterboard and tilebacker boards must be installed to provide a firm, stable substrate with no protruding fixings. Plywood must be a minimum of 15 mm thick and screw fixed at maximum 200 mm centres on walls and 300 mm centres on floors. It should be of class 3 in accordance with EN 314 and EN 636. Steel substrates must be well braced to provide a deflection free support. Remove all rust, mould oil, grease and other contamination. Apply a skim / scratch coat of **Keraquick** mixed with **Latex Plus** and allow to set, then fix the tiles in a void free bed of the same product.

Preparing the mix

A 20 kg bag of **Keraquick** grey should be mixed with about 5 litres of water. Alternatively mix a 20 kg bag of grey or white with 6 kg of **Latex Plus**. Pour clean water (or liquid) into a clean mixing bucket. Add **Keraquick** powder and mechanically stir until a homogenous, lump-free paste is achieved. Allow the mix to stand for 2 minutes then briefly stir again. Use the mix within 30 minutes of preparation.

Applying the mix

Apply the prepared **Keraquick** to the substrate with a notched trowel to a maximum of 10 mm thick. To achieve good adhesion to the substrate, first apply a skim coat of adhesive over the substrate using the flat edge of the trowel followed by combing through with the notched edge of the trowel to the required thickness. Ensure that a minimum coverage of 65-70% to the back of the tile is achieved in dry wall areas with 100%, as far as possible, in wet walls areas, on floors and in exteriors (walls and floors). Ensure that a trowel with a notch size and profile appropriate to the size of tile is used. For demanding applications such as exterior tiling subject to freezing, swimming pools or water feature installations, heavy duty areas, floor tiling to be ground in situ, when installing tiles with deep recesses or lugs on the rear and for fixing large format tiles (> 300 x 300 mm), the adhesive should also be applied to the rear of the tile (back buttering).

For the installation of tiles greater than 600 x 600 mm we recommend the addition of **Latex Plus** to **Keraquick**.

On highly absorbent substrates it is recommended to prime with e.g. **Primer G** before commencing tiling.

Installing the tiles

Do not wet the tiles before installation; if, however, the backs are very dusty, they should be dipped in clean water. Allow to dry before fixing.

Keraquick's open time in normal temperature and humidity is about 15-20 minutes; unfavourable weather conditions (strong sun, drying wind, high temperature), or a highly absorbent substrate may shorten this open time, sometimes quite drastically, to just a few minutes.

Constantly check to see whether the adhesive has formed a surface skin.

Should a surface skin have formed, the adhesive should be removed and fresh material applied.

It is not recommended to wet the adhesive when it has formed a skin because a non-adhesive film will be formed.

Tiling installed with **Keraquick** must not be subjected to washout or rain for at least 3 hours



Setting white Carrara with Keraquick white



An example of an installation with Keraquick in an Auchan supermarket - Sosnowiec (Poland)



An example of an installation of marble walls with Keraquick - Feuchtwangen casino bathroom (Germany)



An example of an installation of a marble floor - Feuchtwangen casino hall (Germany)

TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 as C2FT S1
– ISO 13007 as C2FT S1

PRODUCT IDENTITY

Type:	powder
Colour:	dark grey or white
Bulk density (kg/m ³):	1400 (grey); 1200 (white)
Dry solids content (%):	100
EMICODE:	EC1 R Plus - very low emission

APPLICATION DATA (at +23°C - 50% R.H.)

Mixing ratio:	Keraquick Grey	Keraquick White
	100 parts of powder with 24-26 parts by weight of water	100 parts of powder with 24-26 parts by weight of water
Consistency of mix:	creamy paste	creamy paste
Colour:	grey	white
Density of mix (kg/m ³):	1500	
pH of mix:	approx. 11	
Pot life:	30 minutes	
Application temperature range:	from +5°C to +30°C	
Open time (according to EN 1346):	15-20 minutes	
Grouting joints:	2-3 hours	
Set to light foot traffic:	2-3 hours	
Ready for use:	24 hours (3 days for water features and swimming pools)	

FINAL PERFORMANCES

Tensile adhesion strength according to EN 1348 (N/mm ²):	
– initial (after 28 days):	2.0
– after heat ageing:	1.8
– after water immersion:	1.0
– after freeze-thaw cycles:	1.0
Resistance to acids:	fair
Resistance to alkali:	excellent
Resistance to oils:	excellent
Resistance to solvents:	excellent
Temperature when in use:	from -30°C to +90°C



Laying heavy insulation panels



Rapid overlaying on asphalt industrial floor



Repair work in a refrigerator unit

All relevant references for the product are available upon request and from www.mapei.com



Rapid overlaying of steps

and must be protected from frost and strong sun for at least 24 hours after installation.

Spot bonding of insulating materials

Spot bonding to sound-deadening or insulating panels should be applied using a float or trowel, the trowel type and size will be determined by the flatness of the surface and the weight of the panels.

In these cases, check the open time and bear in mind that a few spots of adhesive on heavy panels may require temporary shoring which should only be removed once the **Keraquick** has begun to set.

GROUTING AND SEALING

Joints between the tiles can be grouted after a minimum of 2 hours with a suitable MAPEI cementitious or epoxy resin grout, available in a wide range of colours.

Movement joints must be sealed with an appropriate elastic sealant such as **Mapesil AC**, **Mapesil Z Plus**, **Mapesil LM** or **Mapeflex PU30**.

LIGHT FOOT TRAFFIC

Floors are able to take light foot traffic after 2-3 hours. Lower temperatures may extend the setting time.

READY FOR USE

Tiled finishes are ready for use after a minimum of 24 hours. Where floors are to be subjected to heavy loads such as cherry pickers, then the adhesive should be allowed to cure for a minimum of 7 days.

Swimming pools, basins and water features can be filled after a minimum of 3 days.

Cleaning

Tools should be cleaned with water before the

adhesive sets. Floors and walls can be cleaned with a damp cloth. Water should be used only in moderate quantities and after a few hours.

CONSUMPTION

Mosaics: ca. 2 kg/m².
Standard size tiles: ca. 3-4 kg/m².
Large tiles, floors, exteriors: ca. 4-6 kg/m².

Notes: The above consumption figures represent average values and may vary dependent on the flatness of the substrate and the size of the notched trowel used.

PACKAGING

Keraquick grey and white is available in 20 kg, 10 kg paper bags and 5 kg AluPak bags available as singles or as a box of 4 x 5 kg.

STORAGE

12 months when stored off the ground in the original unopened packaging protected from high humidity. 24 months - 5 kg AluPak. Prolonged storage at extremes of temperature (low or high) and exposure to damp or humid conditions may extend the setting time of **Keraquick**.

Manufactured in compliance with the requirements of regulation 1907/2006/EC, Annex XVII.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Contains cement, that in contact with sweat or other body fluids produces an irritant alkaline reaction. Use protective gloves and goggles. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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.com



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

