



# Keraquick



**High performance, deformable, fast setting cementitious adhesive with no vertical slip, for ceramic tiles and stone material**



#### **CLASSIFICATION IN COMPLIANCE WITH EN 12004**

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

#### **CLASSIFICATION IN COMPLIANCE WITH EN 12002**

Keraquick is a deformable adhesive, classified as S1.

*Keraquick is CE marked, as declared in ITT certificate n° 25040475/Gi (TUM) issued by the Technische Universität München laboratory (Germany).*

#### **WHERE TO USE**

Bonding on cement screeds, cement-based renders, cured concrete, existing floors in interiors and exteriors of:

- ceramic and mosaic tiles of every type and stone materials that are not extremely sensitive to moisture;
- insulating materials such as expanded polystyrene and polyurethane, gypsum board, glass and rock wool, Eraclit®, foamed-concrete blocks, sound-deadening panels etc.

#### **Some application examples**

- Repairs in heavily trafficked areas and when surfaces need to be in service rapidly, such as public premises, motorway services, pedestrian passages, supermarkets, showrooms;
- rapid installation or repairs in swimming pools, industrial plants (breweries, wine-cellars, dairies etc.), refrigeration units, etc.;
- rapid repair work in bathrooms, showers, kitchens, terraces;
- installing non-absorbent flooring over existing flooring, where the setting time of other cement-based adhesives would be too slow;

- installing marble and other stone material, even light coloured stone (for the latter, use Keraquick white).

#### **TECHNICAL CHARACTERISTICS**

Keraquick is a grey or white powder composed of a blend of special cements, selectively-graded aggregates, synthetic resins and setting accelerators that develop high bonding strength only 2-3 hours after installing. For this reason floors and walls can be used very quickly. Floors are set to light traffic in 24 hours and can be walked on after only 2 hours.

By mixing Keraquick with Latex Plus the deformability improves, to meet the requirements of class S2 (highly deformable adhesive) according to EN 12002.

#### **RECOMMENDATIONS**

Use Keraquick mixed with Latex Plus in the following cases:

- on insufficiently cured concrete substrates or on precast concrete structures;
- on deformable substrates (gypsum boards, asbestos cement, etc.);
- for exterior installations of large-size tiles;
- on underfloor heating installations.

Do not use Keraquick in the following cases:

- on metal, rubber, PVC and linoleum surfaces;
- on walls and floors subject to extreme flexing or vibration (wood, asbestos cement, etc.);
- for bonding insulating panels of expanded polystyrene with protective film.

#### **APPLICATION PROCEDURE**

##### **Preparing the substrates**

Substrates must be flat, mechanically strong, free of loose parts, grease, oil, paint, wax, etc. and sufficiently dry. Moist substrates could slow down Keraquick's setting process.

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Cementitious substrates must not be subject to shrinkage once the tiles have been installed, therefore in warm weather renders should be cured at least one week per centimetre of thickness. Cementitious screeds must have an overall cure of at least 28 days unless they have been made with the special Mapei binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**, ready-mixed mortars.

Cool surfaces that are too hot due to exposure to direct sunlight by dampening them with water.

Gypsum substrates and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), sufficiently hard and free from dust. They must be treated with

**Primer G** or **Mapeprim SP**. Areas subject to extreme damp must be primed with **Primer S**.

## Preparing the mix

A 25 kg bag of grey **Keraquick** should be mixed with about 7-7.5 litres of water, while a 23 kg bag of white **Keraquick** should be mixed with about 7 liters of water.

While stirring, pour **Keraquick** into a bucket containing clean water and mix with a mechanical stirrer until a homogeneous lump-free paste is obtained.

Let the mix sit a few minutes then stir again briefly before applying. The mixture must be used within 30 minutes.

## Applying the mix

**Keraquick** is applied to the substrate with a notched trowel to a max of 10 mm thick.

To achieve good adhesion, first apply a skim coat of **Keraquick** onto the substrate using the straight edge of the trowel followed immediately with the correct thickness.

When selecting the trowel, choose one that transfers the adhesive to at least 65% to 70% of the back of the tiles for interior walls and floors and 100% coverage for heavy traffic areas and exteriors.

- for mosaics up to 5x5 cm, the MAPEI square-notched trowel no. 4 is recommended;
- for normal ceramic wall tiles, the MAPEI V-notched trowel no. 5 is recommended;
- for floors, very irregular surfaces and tiles with high ribs or lugs, the MAPEI V-notched trowel no. 6 is recommended;
- for very demanding applications such as exteriors subject to freezing, installations in swimming pools and bath tubs, floors subject to heavy loads, floors to be polished in situ, dove-tailed tiles, tiles with high ribs or lugs, or large-size tiles, the adhesive should also be applied to the backs of the tiles (back-buttering).

This method is prescribed for sizes exceeding 900 cm<sup>2</sup> (30x30 cm). If the substrates are very absorbent and in high temperatures, it is recommended to dampen the substrate in order to extend the adhesive's, open time before applying **Keraquick**.

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

## Installing the tiles

It is not necessary to wet the tiles before installation; if, however, the backs are very dusty, they should be dipped in clean water.

**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.

For this reasons, there must be constant checks to see whether the adhesive has formed a surface skin or is still fresh to the touch.

Should a surface skin have formed, the adhesive should be re-trowelled. It is not recommended to wet the adhesive when it has formed a skin because, instead of dissolving the skin, a non-adhesive film will be formed.

Tiling installed with **Keraquick** must not be subjected to washout or rain for at least 3 hours and must be protected from frost and strong sun for at least 24 hours after installation.

## Spot-bonding insulating materials

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

In these cases too, the open time must be observed, bearing in mind that a few spots of adhesive on heavy panels may require temporary shoring which should then only be removed after the **Keraquick** has begun to set.

## GROUTING AND SEALING

Joints can be grouted after 3 hours with the special Mapei cementitious or epoxy grouts, available in different colours.

Expansion joints must be sealed with the special Mapei sealants.

## SET TO LIGHT FOOT TRAFFIC

Floors are set to light foot traffic after 2-3 hours.

## READY FOR USE

Surfaces are ready for use after approximately 24 hours. Basins and swimming pools can be filled after 3 days.

## Cleaning

Tools can 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.



*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 casinò bathroom (Germany)*



## TECHNICAL DATA (typical values)

In compliance with:

- European EN 12004 as C2FT
- European EN 12002 as S1
- European EN 12002 as S2 (if mixed with Latex Plus)
- American ANSI A 118.4 - 1999
- Canadian 71 GP 30 M type 2

### PRODUCT IDENTITY

<b>Type:</b>	powder
<b>Colour:</b>	dark grey or white
<b>Bulk density (kg/m<sup>3</sup>):</b>	1400 (grey); 1200 (white)
<b>Dry solids content (%):</b>	100
<b>Storage:</b>	12 months in a dry place in the original packing
<b>Hazard classification according to 99/45/CE:</b>	none Before using refer to the "Safety Instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
<b>Customs class:</b>	3824 50 90

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

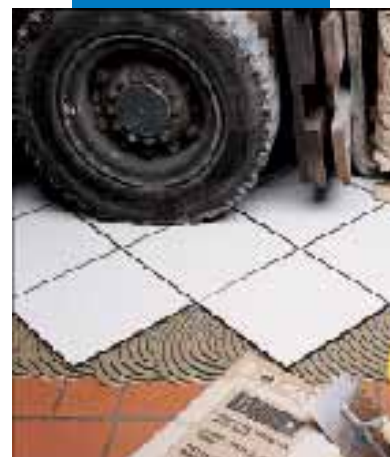
<b>Mixing ratio:</b>	<b>Grey Keraquick</b> 100 parts of powder with 28-29 parts by weight of water	<b>White Keraquick</b> 100 parts of powder with 30 parts by weight of water
<b>Consistency of mix:</b>	pasty	pasty
<b>Colour:</b>	grey	white
<b>Density of the mix (kg/m<sup>3</sup>):</b>	1500	
<b>pH of mix:</b>	approx. 11	
<b>Pot life:</b>	30 minutes	
<b>Application temperature range:</b>	from +5°C to +30°C	
<b>Open time (according to EN 1346):</b>	15-20 minutes	
<b>Grouting joints:</b>	2-3 hours	
<b>Set to light foot traffic:</b>	2-3 hours	
<b>Ready for use:</b>	24 hours (3 days for basins and swimming pools)	

### FINAL PERFORMANCES

<b>Tensile adhesion strength according to EN 1348 (N/mm<sup>2</sup>):</b>		
- initial (after 28 days):	2.0	1.6
- after heat ageing:	1.8	1.4
- after water immersion:	1.0	1.0
- after freeze-thaw cycles:	1.0	1.0
<b>Resistance to acids:</b>	fair	
<b>Resistance to alkali:</b>	excellent	
<b>Resistance to oils:</b>	excellent	
<b>Resistance to solvents:</b>	excellent	
<b>Temperature when in use:</b>	from -30°C to +90°C	
<b>Deformability according to EN 12002:</b>	S1 - deformable	



Laying heavy insulation panels



Rapid overlaying on asphalt industrial floor



Repair work in a refrigerator unit

# Keraquick

All relevant references of the product are available upon request



Rapid overlaying of steps



Bonding insulating material, etc.  
foamed materials etc.: 0.5-0.8 kg/m<sup>2</sup>

gypsum wallboard,  
foamed concrete: 1.5 kg/m<sup>2</sup>

full-bonding on  
rough surfaces: 2.5 kg/m<sup>2</sup>

### PACKAGING

Grey **Keraquick** available in 25 kg bags and 4x5 kg boxes.

White **Keraquick** available in 23 kg bags and 4x5 kg boxes.

### STORAGE

12 months in a dry place in the original packing. Longer storage could extend the setting time without altering the final performances.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Keraquick** contains cement, that in contact with sweat or other body fluids produces an irritant alkaline reaction. Use protective gloves and goggles.

For further information consult the Safety Data Sheet.

FOR PROFESSIONALS.

### WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

### CONSUMPTION

Bonding floors and walls  
mosaics and small size tiles: 2 kg/m<sup>2</sup>  
(trowel no. 4)

normal size tiles: 2.5-3 kg/m<sup>2</sup>  
(trowel no. 5)

large sizes, floors, exteriors: 4 kg/m<sup>2</sup>  
(trowel no. 6 or 10 or larger)

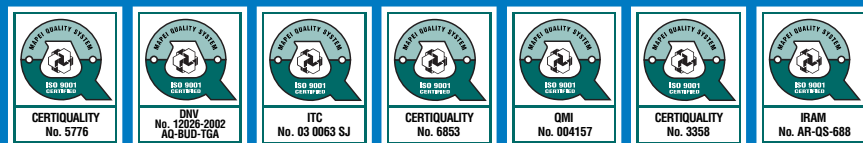


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