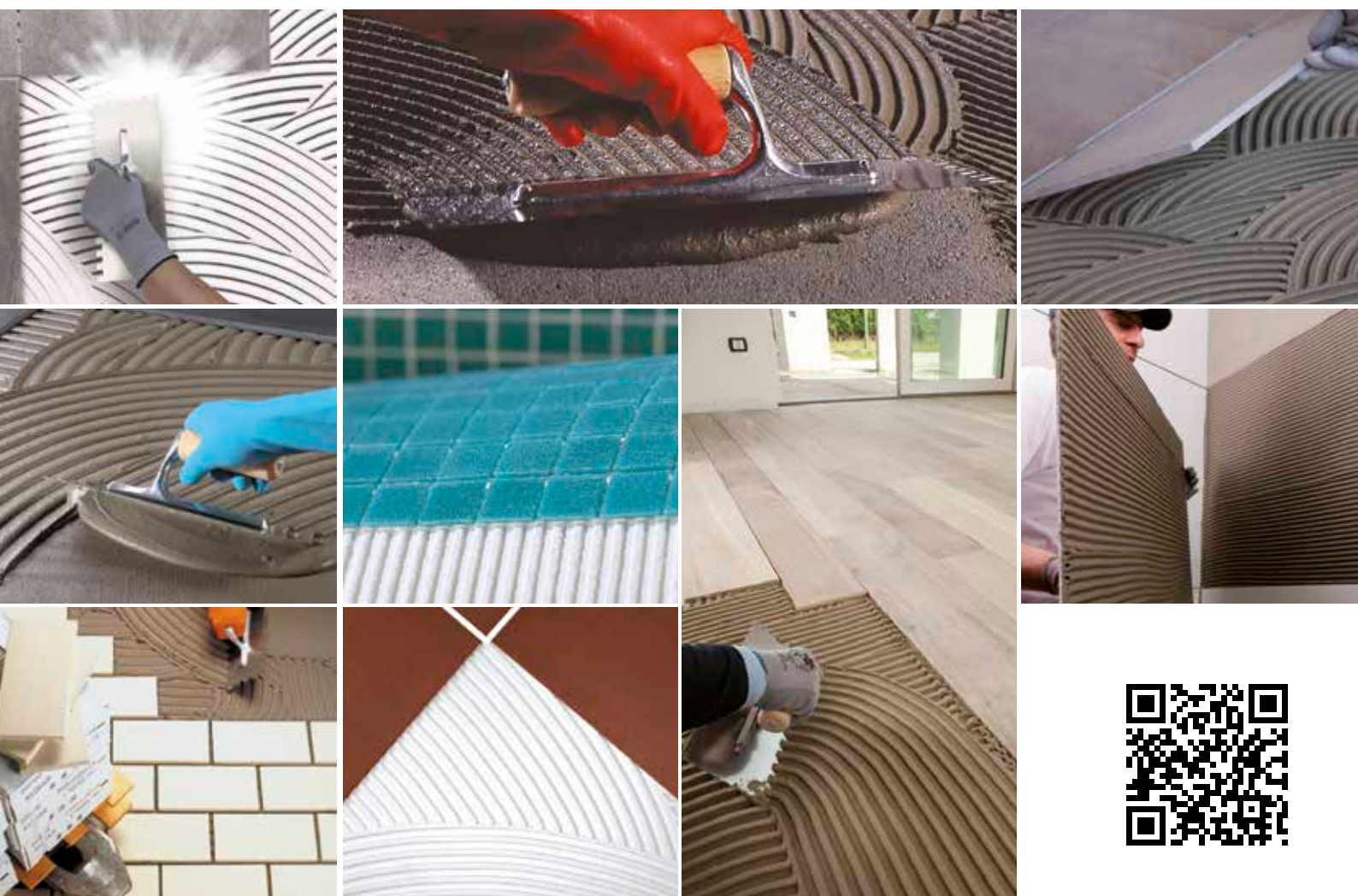


# SELECTION CHART OF ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL





Showroom Fisar  
Milano – Italia



La Llotja de Palma, an ancient building in  
Palma di Maiorca - Spagna



Emil Frey car show-room  
Basel - Switzerland

## CERAMIC TILES AND STONE MATERIAL LINE

Ceramic tiles, natural stone and recomposed materials are generally used for floors and coatings in residential, commercial and industrial constructions and in airports, swimming pools, etc.

In recent years, the development of new technology for the production of ceramic tiles has led to new, thinner and larger sized tiles being available on the market, which are used to create almost continuous surfaces with extremely high architectural value.

Also, the increasing demand to improve soundproofing and thermal insulation in buildings, means that tiles must now be laid on substrates with different characteristics than those normally used.

We must also stress how our awareness of the quality of the air and surroundings in our homes and in the workplace has developed in recent years.

MAPEI research has undertaken the challenge to address these demands, and has developed products with increasingly sophisticated formulations which are easy to use and apply, guarantee the durability of ceramic and stone flooring and coatings and respect the environment and the health of floor layers, and all those who use the environments in which they have been applied.

MAPEI can now boast a complete range of products adapted to all installation systems, on any scale. The range includes cementitious adhesives, paste adhesives, hydraulic binders for screeds, primers, levelling compounds, grouts, sealants and ancillary products suitable for applications until recently considered technically impossible but that now open up a number of exciting new possibilities:

- repair work without costly demolition;
- increased speed and efficiency in the execution of work. As a result, work is completed more rapidly;
- progressive elimination of dangerous products from construction sites;
- grouts and joints that are not only functional, but may also serve as decorative features;
- systems for the installation of ceramic tiles on façades on layers of thermal insulation (**Mapetherm Tile System**).



**All MAPEI adhesives for ceramics and stone material conform to Standard ISO 13007-1**



**All MAPEI adhesives have been awarded the CE mark in compliance with Annex ZA, Standard EN 12004**

## HOW TO CHOOSE THE RIGHT ADHESIVE?

When installing ceramic tiles, the adhesive is used to create a strong, durable bond between the tiles and the tiling substrate. To choose the most suitable adhesive, the specific requirements of each project (the area where the tiles are installed, service conditions when in use, type of substrate, dimensions of the tiles, etc.) and any installation constraints (installation schedule, installation technique, etc.) must all be taken into consideration. MAPEI proposes a vast range of adhesives which are classified according to EN 12004 or ISO13007-1 Standards, based on the following criteria:

### • Chemical composition:

- **Cementitious (C)**, adhesives made from a mixture of hydraulic binders, aggregates and chemical additives. They may be either a one-component type, which means they just need to be blended with water, or a two-component type, which means they are blended with water and/or latex
- **Dispersion (D)**, a mixture of organic binders dispersed in water polymers with organic additives
- **Reactive (R)**, a mixture of synthetic resins which harden through a chemical reaction (components A and B)

### • Adhesion capacity:

- **Class 1**: Normal adhesives;
- **Class 2**: Improved adhesives;

### • Optional classes:

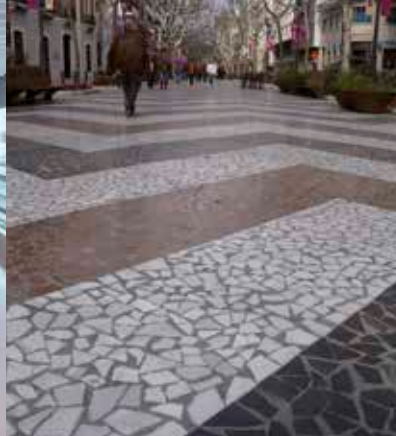
- **Class F**: Fast-setting adhesives;
- **Class T**: Reduced slip adhesives;
- **Class E**: Adhesives with extended open time;
- **Class S1**: deformable adhesives (for cementitious adhesives only);
- **Class S2**: highly deformable adhesives (for cementitious adhesives only)

Apart from the main guidelines explaining how to use the product correctly, the packaging for each MAPEI product also indicates the relative certification of the product and its main technical characteristics. For all information regarding the technical characteristics of MAPEI products and instructions on how to use them correctly, refer to the specifications contained in each product's relative Technical Data Sheet, available for viewing or download at the company's official website [www.mapei.com](http://www.mapei.com).





Melbourne International Airport - Australia



Passeig Germanies  
Valencia – Spagna



Grand Mall shopping centre,  
Varna – Bulgaria

## THE ENVIRONMENT AND MAPEI RESEARCH

MAPEI has always been committed to research and development into products which safeguard the environment, the health of those who use them and of those who use the areas where they are applied, and since 1980, they have developed a series of products which emit an extremely low level of volatile organic compounds. These products have been used for decades on sites all over the world for laying resilient and textile floors. Since October 2005, they have been certified “EMICODE EC1” - very low emission level of volatile organic compounds” and since June 2010 “EMICODE EC1 Plus” - very low emission level of volatile organic compounds - Plus - both awarded by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe Klebstoffe und Bauprodukte e.V.), a German association which controls the emission levels of products used for laying floors, adhesives and other materials used in the building industry.



MAPEI's strong commitment to the environment and ECO-SUSTAINABLE buildings has also led the company to provide products with an extremely low level of VOC for installing ceramic tiles and natural stone which are also GEV certified, and which carry the EMICODE EC1 and EMICODE EC1 Plus seal of approval, which may be found in the catalogue as follows:

Maximum emission limits for EC1 and EC1 Plus products

	Adhesive EMICODE EC1 PLUS	Adhesive EMICODE EC1
Emissions 3 days after laying	TVOC ≤ 750 µg/m <sup>3</sup>	TVOC ≤ 1000 µg/m <sup>3</sup>
Emissions 28 days after laying	TVOC ≤ 60 µg/m <sup>3</sup> TSVOC ≤ 40 µg/m <sup>3</sup>	TVOC ≤ 100 µg/m <sup>3</sup> TSVOC ≤ 50 µg/m <sup>3</sup>

The **Green Innovation** symbol identifies products with certain characteristics which contribute to achieving eco-sustainable buildings:



### Our Commitment To The Environment

More than 150 MAPEI products contribute valuable points towards Green Star™ certified projects, in compliance with the Green Building Council of Australia.

- products with a very low emission level of volatile organic compounds,
- products which avoid the formation of mould when applied in damp environments,
- products which help to improve environmental wellbeing, for example by improving sound-proofing against the noise created by foot-traffic,
- products based on the use of raw materials from recycled materials, to reduce impact on the environment deriving from the extraction of virgin materials.



green building council australia  
MEMBER



Once you've chosen the most suitable adhesive, complete it by selecting the most appropriate grouts and sealants. For further information, visit our website [www.mapei.com.au](http://www.mapei.com.au).

# The World of Mapei



**Mapei offers a wide range of high quality products for installing ceramic tiles, stone and mosaics, carpet, vinyl, rubber and timber flooring.**

- Floor preparation
  - Ceramic Adhesives
  - Sealants
  - Waterproofing
  - Grouts
  - Timber & Flooring Adhesives
  - Repair Mortar
  - Construction Grouts
- Products that are easy to use, labour efficient and cost effective
  - Eco-sustainable products with extremely low VOC emissions that exceed the requirements set out by the Green Council of Australia and **Green Star™**
  - Internationally and locally certified products according to the strictest testing standards



For more information visit [www.mapei.com.au](http://www.mapei.com.au)

# CERTIFICATIONS



GBCA  
GreenStar™



## NORMAL-SETTING HYDRAULIC BINDER-BASED ADHESIVES\*

ADEFLEX R	C1S1	•	
ADEFLEX R + ISOLASTIC 50	C2S2	•	
ADESILEX P9	C2TE	•	
KERABOND PLUS	C2T	•	
KERABOND PLUS + ISOLASTIC	C2TS2	•	
KERABOND PLUS + ISOLASTIC 50	C2TS1	•	
KERAFLEX	C2TE	•	
KERAFLEX MAXI S1	C2TES1	•	
KERASET	C1	•	
TIXOBOND FINE SI	C1TES1	•	
ULTRALITE S1	C2TE S1	•	

## FAST-SETTING HYDRAULIC BINDER-BASED ADHESIVES\*

ADESILEX P4	C2F	•	•
GRANIRAPID	C2FS1	•	•
KERAQUICK S1	C2FTS1	•	•
KERAQUICK S1 + LATEX PLUS	C2FS2	•	•

## SYNTHETIC RESIN-BASED ADHESIVES\*

MAPEMASTIC EASY	D1TE	•	
ULTRAMASTIC III	D2TE	•	

## REACTIVE ADHESIVES\*

KERALASTIC T	R2T	•	
KERAPOXY ADHESIVE	R2T	•	

\* Apart from international standards, the products used to install ceramic tiles also comply with the current national standards of various countries



## NORMAL-SETTING HYDRAULIC BINDER-BASED ADHESIVES



### Adeflex R



- Premium grade deformable rubber modified cement based adhesive for bonding ceramic tiles and stone material on floor and walls in interiors. Ideal for use on rigid plywood or structural particleboard substrates if mixed with ISOLASTIC 50.

**Colour:** Off white  
**Packaging:** 20kg bag  
**Pot Life:** > 8 hours  
**Open Time:** 20 minutes



### Adesilex P9



- High-performance cementitious adhesive with no vertical slip and extended open time for ceramic tiles (thickness of adhesive up to 5 mm). Internal / external use.

**Colour:** Off white  
**Packaging:** 20kg bag  
**Pot Life:** > 8 hours  
**Open Time:** 30 minutes



### Isolastic



- Elasticising latex mixed with KERABOND PLUS. When KERABOND PLUS is mixed with ISOLASTIC they form a high-performance, highly deformable adhesive with extended open time (C2ES2).

**Colour:** Pinkish white  
**Packaging:** 25kg, 6.6kg, 1kg drum



### Isolastic 50



- Latex additive to elasticise cement-based adhesives. Mix with KERABOND PLUS or ADEFLEX R.

**Colour:** White  
**Packaging:** 25kg, 6.6kg drum



### Kerabond Plus



- Cementitious adhesive with superior bond strength suitable for all tile types. Internal and external use.

**Colour:** Grey or white  
**Packaging:** 20kg bag  
**Pot Life:** > 8 hours  
**Open Time:** approx. 20 minutes



### Keraflex



- High-performance cementitious adhesive with no vertical slip and extended open time for ceramic and stone tiles (thickness of adhesive up to 5 mm). Internal / external use.

**Colour:** Grey or white  
**Packaging:** 20kg bag  
**Pot Life:** > 8 hours  
**Open Time:** > 30 minutes



### Keraflex Maxi S1



- High-performance deformable cementitious adhesive with no vertical slip, extended open time for ceramic tiles, particularly recommended for laying large porcelain and natural stone tiles (thickness of adhesive from 3 to 15 mm). Internal / external use.

**Colour:** Grey or white  
**Packaging:** 20kg bag  
**Pot Life:** > 8 hours  
**Open Time:** > 30 minutes



### Keraset

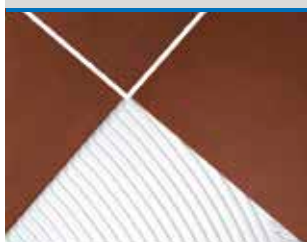


- Cementitious adhesive for ceramic tiles (thickness of adhesive up to 5 mm). Internal / external use.

**Colour:** Grey  
**Packaging:** 20kg bag  
**Pot Life:** 6 - 8 hours  
**Open Time:** 15 minutes



### Tixobond Fine S1



- High-performance, ultra-white cementitious adhesive with no vertical slip and long open time for ceramic wall and floor tiles. Internal / external use.

**Colour:** Super white  
**Packaging:** 20kg bag  
**Pot Life:** 4 hours  
**Open Time:** 30 minutes



### Ultralite S1



- One-component, high-performance, lightweight, deformable cementitious adhesive with no vertical slip, long open time.

**Colour:** Grey or white  
**Packaging:** 13.5kg bag  
**Pot Life:** > 8 hours  
**Open Time:** > 30 minutes

## FAST-SETTING HYDRAULIC BINDER-BASED ADHESIVES



### Adesilex P4

- ▶ High-performance, self-buttering, quick-setting grey cementitious adhesive for ceramic tiles and stone material (thickness of adhesive from 3 to 20 mm). Internal / external use.

N.B. May also be used for smoothing internal and external surfaces.

**Colour:** Grey  
**Packaging:** 20kg bag  
**Pot Life:** 60 minutes  
**Open Time:** 15 minutes



### Granirapid

- ▶ Two-component, high-performance, deformable, quick-setting and drying cementitious adhesive for ceramic tiles and stone material (thickness of adhesive up to 10 mm). Recommended for moisture-sensitive material.

**Colour:** Part A: Grey (25kg bag)  
 Part A: White (22.5kg bag)  
 Part B: Liquid (5.5kg drum)  
**Pot Life:** 45 minutes  
**Open Time:** 20 minutes



### Keraquick S1

- ▶ High-performance, quick-setting, deformable cementitious adhesive with no vertical slip and extended open time for ceramic tiles and stone material stable in the presence of humidity (thickness of adhesive up to 10 mm).

**Colour:** Grey  
**Packaging:** 20kg bag  
**Pot Life:** 30 minutes  
**Open Time:** 15 - 20 minutes



### Latex Plus

- ▶ Elasticising latex mixed with KERAQUICK S1. When KERAQUICK S1 is mixed with LATEX PLUS it forms a high-performance, quick-setting, highly-deformable adhesive with no vertical slip (C2FS2).

**Colour:** White  
**Packaging:** 10kg drum

## SYNTHETIC RESIN-BASED ADHESIVES



### Ultramastic III

- ▶ Ready-to-use, high-performance adhesive paste with no vertical slip and long open time, for laying ceramic tiles on walls and floors (thickness of adhesive up to 5 mm).

**Colour:** White  
**Packaging:** 5kg, 1kg buckets  
**Open Time:** ≥ 30 minutes



### Mapemastic Easy

- ▶ Ready-to-use white paste adhesive with no vertical slip and long open time for the installation of ceramic wall tiles up to 300mm x 600mm in interiors. Ideal for tiling onto gypsum board.

**Colour:** White  
**Packaging:** 20kg drum  
**Open Time:** 30 - 40 minutes

## REACTIVE ADHESIVES



### Keralastic T

- ▶ Two-component, high-performance polyurethane adhesive with no vertical slip for ceramic tiles and stone material.

**Colour:** White  
**Packaging:** 10kg, 5kg buckets  
**Pot Life:** 30 - 40 minutes  
**Open Time:** 50 minutes



### Kerapoxy Adhesive

- ▶ Two-component epoxy adhesive with reduced slip for ceramic tiles and stone material.

**Colour:** Grey  
**Packaging:** 10kg bucket  
**Pot Life:** 45 minutes  
**Open Time:** 60 minutes





## **Granirapid**



**Two-component high performance fast-setting and hydrating cementitious adhesive for ceramic tiles and stone material.**

- Particularly suitable for bonding stone material with fast drying times
- Particularly suitable for rapid re-tiling jobs or flooring that has to be ready for use within very short times (supermarkets, hospital, swimming pools, etc.)
- Suitable for bonding floorings subject to heavy traffic



For more information visit [www.mapei.com.au](http://www.mapei.com.au)



# ADHESIVES FOR INSTALLING THIN PORCELAIN TILES ON INTERNAL AND EXTERNAL SURFACES<sup>(1)</sup>

RECOMMENDED ADHESIVES			
TYPE OF SUBSTRATE	FORMAT	NORMAL SETTING	FAST SETTING
Installation of thin porcelain tiles <b>WITH</b> glass fibre strengthening mesh <b>on internal cementitious screeds or existing ceramic flooring and on internal walls</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	GRANIRAPID
	> 5000 cm <sup>2</sup>	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS
Installation of thin porcelain tiles <b>WITHOUT</b> glass fibre strengthening mesh <b>on internal cementitious screeds or existing ceramic flooring and on internal walls</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERAFLEX ADESILEX P9	KERAQUICK S1 GRANIRAPID
	> 5000 cm <sup>2</sup>	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	GRANIRAPID
Installation of thin porcelain tiles <b>WITH</b> or <b>WITHOUT</b> glass fibre strengthening mesh <b>on internal cementitious screeds with underfloor heated flooring</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS
	> 5000 cm <sup>2</sup>		KERAQUICK S1 + LATEX PLUS
Installation of thin porcelain tiles <b>WITH</b> glass fibre strengthening mesh <b>on waterproofed internal surfaces (such as MAPELASTIC SMART, MAPELASTIC AQUADEFENSE or MAPEGUM WPS)</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 + LATEX PLUS
	> 5000 cm <sup>2</sup>	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS
Installation of thin porcelain tiles <b>WITHOUT</b> glass fibre strengthening mesh <b>on waterproofed internal surfaces (such as MAPELASTIC SMART, MAPELASTIC AQUADEFENSE or MAPEGUM WPS)</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERAFLEX ADESILEX P9	KERAQUICK S1 GRANIRAPID
	> 5000 cm <sup>2</sup>	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	GRANIRAPID
Installation of thin porcelain <b>WITH</b> or <b>WITHOUT</b> glass fibre strengthening mesh <b>on work benches, wooden furnishings, marine plywood and metal</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERALASTIC T	KERAQUICK S1 + LATEX PLUS
	> 5000 cm <sup>2</sup>	KERALASTIC T	
Installation of tiles <b>WITH</b> glass fibre strengthening mesh <b>on façades on cementitious render or reinforced concrete</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS
	> 5000 cm <sup>2</sup>	KERALASTIC T	KERAQUICK S1 + LATEX PLUS
Installation of tiles <b>WITHOUT</b> glass fibre strengthening mesh <b>on façades on cementitious render or reinforced concrete</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 + LATEX PLUS
	> 5000 cm <sup>2</sup>	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS
MAPETHERM TILE SYSTEM, for installing thin porcelain tiles <b>on thermal insulation system</b>	< 5000 cm <sup>2</sup> (the longer side must be no more than 100 cm)	KERABOND PLUS + ISOLASTIC	KERAQUICK S1 + LATEX PLUS

KEY

EPOXY-POLYURETHANE adhesive

(1) for further information, see the Technical Notebook "Systems for installing thin porcelain tiles".

# ADHESIVES FOR INSTALLING CERAMIC TILES, MOSAICS AND STONE ON **INTERNAL FLOORS**

FLOOR	CERAMIC TILES AND MOSAICS				
TYPE OF SUBSTRATE	Glass mosaics or ceramic tiles		Single-fired, double-fired or terracotta		Porcelain tiles or klinker
	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING	NORMAL SETTING
Cementitious screeds and screeds made from special binders	ADESILEX P9 KERAFLEX	KERAQUICK S1	KERABOND PLUS ADESILEX P9 KERAFLEX	KERAQUICK S1	ADESILEX P9 KERAFLEX
Concrete floor slabs and flooring	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1	ADESILEX P9 KERAFLEX KERABOND PLUS	GRANIRAPID KERAQUICK S1	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1
Anhydrite screeds (with ECO PRIM T PLUS)	ADESILEX P9 KERAFLEX	KERAQUICK S1	KERABOND PLUS ADESILEX P9 KERAFLEX	KERAQUICK S1	ADESILEX P9 KERAFLEX
Heated screeds	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1	ADESILEX P9 KERAFLEX	GRANIRAPID KERAQUICK S1	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1
Existing ceramic, terrazzo or natural stone floors	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1	ADESILEX P9 KERAFLEX	GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1
Surfaces waterproofed with MAPELASTIC AQUADEFENSE or MAPEGUM WPS	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 GRANIRAPID	ADESILEX P9 KERAFLEX	GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1
Marine plywood	KERABOND PLUS + ISOLASTIC KERALASTIC	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T ADEFLEX R + ISOLASTIC	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T
Chipboard	KERABOND PLUS + ISOLASTIC KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T
Existing PVC, rubber or linoleum floors	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T
Metal surfaces	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T

## KEY

HYDRAULIC BINDER-BASED adhesive

EPOXY-POLYURETHANE adhesive

	STONE				
	Dimensionally-stable stone (class A according to MAPEI classification system) not sensitive to staining		Stone with poor dimensional stability (class B according to MAPEI classification system) or stone sensitive to staining		Stone with no dimensional stability (class C according to MAPEI classification system) or resin-based recomposed material sensitive to heat
FAST SETTING	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING	
GRANIRAPID KERAQUICK S1	KERAFLEX	ADESILEX P4 KERAQUICK S1 KERAQUICK S1 + LATEX PLUS GRANIRAPID	KERALASTIC T KERAPOXY ADHESIVE	KERAQUICK S1 KERAQUICK S1 + LATEX PLUS GRANIRAPID	KERALASTIC T KERAPOXY ADHESIVE
KERAQUICK S1 GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1 KERAQUICK S1				
GRANIRAPID KERAQUICK S1	KERAFLEX				
KERAQUICK S1 GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1 KERAQUICK S1				
KERAQUICK S1 GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1 KERAQUICK S1				
GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1 KERAQUICK S1				
KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	KERALASTIC T KERAPOXY ADHESIVE
KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	
KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	
KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	

The installation suggestions in this table are to be considered merely for indication purposes and refer only to normal conditions. For further information, refer to the relative Technical Data Sheet for each product. Defining the most suitable installation system is highly influenced by the conditions on site and the format of the tiles to be installed. For all special cases, contact Mapei Technical Assistance Department or the relative technical guides.



# ADHESIVES FOR INSTALLING CERAMIC TILES, MOSAICS AND STONE ON **INTERNAL WALLS**

WALLS		CERAMIC TILES AND MOSAICS			
TYPE OF SUBSTRATE	Glass mosaics or ceramic tiles		Single-fired, double-fired or terracotta		Porcelain tiles or klinker
	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING	NORMAL SETTING
Cementitious render or skim coats	ADESILEX P9 ULTRAMASTIC III KERAFLEX	KERAQUICK S1	TIXOBOND FINE S1 KERABOND PLUS ADESILEX P9 KERAFLEX	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III
Concrete	KERAFLEX MAXI S1 ULTRALITE S1 ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX MAPEMASTIC EASY	KERAQUICK S1 GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1 ULTRAMASTIC III
Expanded or cellular cement blocks (with PRIMER G, ECO PRIM T PLUS or ECO PRIM GRIP)	KERAFLEX ADESILEX P9 ULTRAMASTIC III	KERAQUICK S1	KERAFLEX TIXOBOND FINE S1 KERABOND PLUS ADESILEX P9 ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III
Lime-based skim coats or render (with PRIMER G, ECO PRIM T PLUS or ECO PRIM GRIP)	ADESILEX P9 KERAFLEX ULTRAMASTIC III (*)	KERAQUICK S1	KERAFLEX TIXOBOND FINE S1 KERABOND PLUS ADESILEX P9 ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III (*)
Plasterboard	ADESILEX P9 KERAFLEX ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III
Surfaces waterproofed with MAPEGUM WPS or MAPELASTIC AQUADEFENSE	KERAFLEX MAXI S1 ULTRALITE S1	KERAQUICK S1	ADESILEX P9 KERAFLEX	KERAQUICK S1 GRANIRAPID	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1
Chipboard	KERABOND PLUS + ISOLASTIC KERALASTIC T ULTRAMASTIC III	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T ULTRAMASTIC III	KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T ULTRAMASTIC III
Cement-fibre panels (with PRIMER G, ECO PRIM T PLUS or ECO PRIM GRIP)	ADESILEX P9 KERAFLEX ULTRAMASTIC III	KERAQUICK S1	KERAFLEX TIXOBOND FINE S1 KERABOND PLUS ADESILEX P9 ULTRAMASTIC III	KERAQUICK S1	ADESILEX P9 KERAFLEX ULTRAMASTIC III
Metal surfaces	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS	KERALASTIC T

## KEY

HYDRAULIC BINDER-BASED adhesive

EPOXY-POLYURETHANE adhesive

READY-TO-USE adhesive DISPERSION

(\*) apply PRIMER G or  
ECO PRIM T PLUS beforehand

	STONE				
	Dimensionally-stable stone (class A according to MAPEI classification system) not sensitive to staining		Stone with poor dimensional stability (class B according to MAPEI classification system) or stone sensitive to staining		Stone with <b>no</b> dimensional stability (class C according to MAPEI classification system) or resin-based recomposed material sensitive to heat
FAST SETTING	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING	
KERAQUICK S1 GRANIRAPID	ADESILEX P9 KERAFLEX	KERAQUICK S1 ADESILEX P4 KERAQUICK S1 + LATEX PLUS GRANIRAPID	KERALASTIC T  KERAPOXY ADHESIVE	KERAQUICK S1 KERAQUICK S1 + LATEX PLUS GRANIRAPID	KERALASTIC T KERAPOXY ADHESIVE
KERAQUICK S1	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1				
KERAQUICK S1 GRANIRAPID	ADESILEX P9 KERAFLEX				
KERAQUICK S1 GRANIRAPID	ADESILEX P9 KERAFLEX				
KERAQUICK S1 GRANIRAPID	ADESILEX P9 KERAFLEX				
KERAQUICK S1	ADESILEX P9 KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1				
KERAQUICK S1 + LATEX PLUS	KERABOND PLUS + ISOLASTIC KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	KERALASTIC T KERAPOXY ADHESIVE
KERAQUICK S1 GRANIRAPID	KERAFLEX ADESILEX P9	GRANIRAPID KERAQUICK S1		GRANIRAPID KERAQUICK S1	
KERAQUICK S1 + LATEX PLUS	KERALASTIC T	KERAQUICK S1 + LATEX PLUS		KERAQUICK S1 + LATEX PLUS	

The installation suggestions in this table are to be considered merely for indication purposes and refer only to normal conditions. For further information, refer to the relative Technical Data Sheet for each product. Defining the most suitable installation system is highly influenced by the conditions on site and the format of the tiles to be installed. For all special cases, contact Mapei Technical Assistance Department or the relative technical guides.

# ADHESIVES FOR INSTALLING CERAMIC TILES, MOSAICS AND STONE ON **EXTERNAL SURFACES**

FLOOR	CERAMIC TILES AND MOSAIC			
TYPE OF SUBSTRATE	Glass mosaics or ceramic tiles		Porcelain tiles, klinker, single-fired or terracotta	
	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING
Cementitious screeds and screeds made from special binders	KERABOND PLUS + ISOLASTIC 50% KERAFLEX MAXI S1 ULTRALITE S1	KERAQUICK S1	KERAFLEX KERAFLEX MAXI S1 ULTRALITE S1	GRANIRAPID KERAQUICK S1
Surfaces waterproofed with MAPELASTIC SMART			KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 GRANIRAPID
Concrete			KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 GRANIRAPID

WALLS AND FAÇADES	CERAMIC TILES AND MOSAIC			
TYPE OF SUBSTRATE	Glass mosaics or ceramic tiles		Porcelain tiles, klinker, single-fired or terracotta	
	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING
Cementitious render or concrete	KERABOND PLUS + ISOLASTIC 50% KERAFLEX MAXI S1 ULTRALITE S1	KERAQUICK S1	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	KERAQUICK S1 + LATEX PLUS KERAQUICK S1

SWIMMING POOLS, TANKS, etc.	CERAMIC TILES AND MOSAIC			
TYPE OF SUBSTRATE	Glass mosaics or ceramic tiles		Porcelain tiles, klinker, single-fired or terracotta	
	NORMAL SETTING	FAST SETTING	NORMAL SETTING	FAST SETTING
Cementitious screeds, screeds made with special binders, concrete and surfaces waterproofed with MAPELASTIC SMART	KERABOND PLUS + ISOLASTIC 50% KERAFLEX MAXI S1 ULTRALITE S1	GRANIRAPID	KERAFLEX MAXI S1 ULTRALITE S1 KERABOND PLUS + ISOLASTIC 50	GRANIRAPID KERAQUICK S1
Fibreglass	KERAPOXY ADHESIVE	-	KERAPOXY ADHESIVE	-

KEY  
HYDRAULIC BINDER-BASED adhesive  
EPOXY adhesive

(\*) apply ECO PRIM T PLUS  
or ECO PRIM GRIP beforehand



## STONE

Dimensionally-stable stone (class A according to MAPEI classification system) not sensitive to staining

Stone with poor dimensional stability (class B according to MAPEI classification system) or stone sensitive to staining

Stone with **no** dimensional stability (class C according to MAPEI classification system) or resin-based recomposed material sensitive to heat

NORMAL SETTING

FAST SETTING

NORMAL SETTING

FAST SETTING

KERAFLEX  
KERAFLEX MAXI S1  
ULTRALITE S1

KERAFLEX MAXI S1  
ULTRALITE S1  
KERABOND PLUS +  
ISOLASTIC

KERAFLEX MAXI S1  
ULTRALITE S1  
KERABOND PLUS +  
ISOLASTIC

GRANIRAPID  
KERAQUICK S1

KERALASTIC T  
KERAPOXY ADHESIVE

GRANIRAPID  
KERAQUICK S1

KERALASTIC T  
KERAPOXY ADHESIVE

## STONE

Dimensionally-stable stone (class A according to MAPEI classification system) not sensitive to staining

Stone with poor dimensional stability (class B according to MAPEI classification system) or stone sensitive to staining

Stone with **no** dimensional stability (class C according to MAPEI classification system) or resin-based recomposed material sensitive to heat

NORMAL SETTING

FAST SETTING

NORMAL SETTING

FAST SETTING

KERAFLEX MAXI S1  
ULTRALITE S1  
KERABOND PLUS +  
ISOLASTIC

GRANIRAPID  
KERAQUICK S1

KERALASTIC T  
KERAPOXY ADHESIVE

GRANIRAPID  
KERAQUICK S1

KERALASTIC T  
KERAPOXY ADHESIVE

## STONE

Dimensionally-stable stone (class A according to MAPEI classification system) not sensitive to staining

Stone with poor dimensional stability (class B according to MAPEI classification system) or stone sensitive to staining

Stone with **no** dimensional stability (class C according to MAPEI classification system) or resin-based recomposed material sensitive to heat

NORMAL SETTING

FAST SETTING

NORMAL SETTING

FAST SETTING

KERAFLEX MAXI S1  
ULTRALITE S1  
KERABOND PLUS +  
ISOLASTIC

GRANIRAPID  
KERAQUICK S1

-

-

-

KERAPOXY ADHESIVE

-

-

-

-

The installation suggestions in this table are to be considered merely for indication purposes and refer only to normal conditions. For further information, refer to the relative Technical Data Sheet for each product. Defining the most suitable installation system is highly influenced by the conditions on site and the format of the tiles to be installed. For all special cases, contact Mapei Technical Assistance Department or the relative technical guides.



#### Technical documentation

From the technical area menu you can view the technical documentation divided per product lines and type of document.

#### MAPEI AUSTRALIA

180 Viking Drive  
Wacol Qld 4076  
Phone: 07 3276 5000  
Fax: 07 3276 5076  
Email: [sales@mapei.com.au](mailto:sales@mapei.com.au)  
Web: [www.mapei.com.au](http://www.mapei.com.au)

#### MAPEI NEW ZEALAND

30 Fisher Crescent  
Mt Wellington Auckland New Zealand  
Phone: +64 9 921 1994  
Fax: +64 9 921 1993  
Email: [enquiries@mapei.co.nz](mailto:enquiries@mapei.co.nz)  
Web: [www.mapei.co.nz](http://www.mapei.co.nz)

