



Keraset



**Cementitious adhesive
for ceramic, granite,
porcelain tiles
and stones**



KeoCongTrinh
.com

Hotline: 0931 497 627

**CLASSIFICATION IN COMPLIANCE WITH
ISO 13007 AND TCVN 7899-2:2008**

Keraset is a normal (1) cementitious (C) adhesive of class C1.

Keraset complies with TCVN 7899-2:2008.

Conformity of **Keraset** is declared in **TT** certificate **n° 71230101.101 (SFV)** issued by the Säurefliesner-Vereinigung e.V. Grossburgwedel laboratory (Germany) and **n° 25080231/GI (TUM)** issued by the Technische Universität München laboratory (Germany) and in certificates **TT n° 2008-B-2749/01** and **2008-B-2749/04** issued by the MPA Dresden Institute (Germany).

WHERE TO USE

Internal and external bonding of ceramic, granite, porcelain tiles, mosaics and stones for floors, walls.

Some application examples

Bonding tiles and stones on:

- traditional render or cement mortar;
- ordinary or floating reinforced, cementitious screeds provided they are sufficiently cured and dry.

TECHNICAL CHARACTERISTICS

Keraset is a grey or white powder composed of cement, sands of selected granulometry, synthetic resins and special admixtures according to a formula

developed in MAPEI's Research Laboratories.

Keraset, mixed with water, becomes an easily workable mortar, that can be applied even vertically without slumping and without letting the tiles slip.

Keraset hardens without appreciable shrinkage attaining a good resistance, adhering perfectly to all materials normally used in the building industry.

RECOMMENDATIONS

Do not use **Keraset**:

- on wood and wooden mixtures;
- on gypsum board or light weight concrete walls;
- on metal, rubber, PVC and linoleum surfaces;
- for the installation of glass mosaics;
- for the installation of tiles that require an adhesive thickness greater than 5 mm;
- on pre-cast concrete or subject to strong movements;
- on heated or existing floors;
- in cases where the surface needs to be set to light traffic quickly.

APPLICATION PROCEDURE

Preparation of the substrate

The substrates must be cured, mechanically strong,

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free of loose particles, grease, oil, paint, wax and sufficiently dry.

Cement substrates must not be subject to shrinkage after tile installation. In mild weather, renders must have cured at least one week for each centimetre of thickness and cementitious screeds must have cured at least 28 days, unless they have been made with MAPEI special binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or with **Topcem Pronto**. Cool down with water surfaces that could become too hot due to exposure to sun light.

Gypsum substrates and anhydrite screeds must be perfectly dry, sufficiently hard and free of dust. It is absolutely essential that they are treated with **Primer G** or **Mapeprim SP**. Areas subject to high humidity should be primed with **Primer S**.

Preparing the mix

Keraset must be mixed with clean water to obtain an homogenous paste free of lumps; after some minutes of resting, it must be re-mixed and the paste is then ready for use.

The quantity of water to be used is 23-25 parts per 100 parts (by weight) equal to 5.75-6.25 litres of water for 25 kg of **Keraset**.

The mix, produced in this way, is workable for at least 6 hours.

Applying the mix

Keraset is applied with a notched trowel onto the substrate. Choose a trowel that will give a coverage to the back of the tiles of at least 65-70% for walls or for internal light foot traffic. for heavy traffic and for external application, the coverage must be 100%.

To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **Keraset** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **Keraset** using the toothed side of the trowel.

In the case of external floor and wall tiles/ stones subject to frost or in difficult applications, **Keraset** must also be applied on the back of the tiles (back-buttering method).

Installing the tiles

It is not necessary to wet the tiles before installation; only in the case of very dusty backs washing is recommended, by quickly immersing them in clean water. The tiles must be installed in the normal way, placing them firmly to ensure good contact with the adhesive. The open time of **Keraset** in

normal conditions of temperature and humidity, is 20 minutes; unfavourable environmental conditions (strong sun light, drying wind, high temperature as well as a very absorbent substrate), could drastically reduce this time to a few minutes.

Therefore one must constantly check that the adhesive has not formed a superficial skin and is still "fresh"; where there is a formation of a superficial skin the adhesive must be re-applied with the notched trowel.

Wetting the adhesive after it has produced the skin is not recommended because the water forms an anti-adhesive film instead of dissolving it.

The "adjustability" of the tiles must be carried out within 45 minutes after installation.

Tiles installed with **Keraset** must not be subject to running water or rain for at least 24 hours and must be protected from freezing weather and strong sun light for at least 5-7 days after installation.

GROUTING AND SEALING

Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours with the specific MAPEI cementitious or epoxy grouts, available in different colours.

Expansion joints must be sealed with the specific MAPEI sealants.

SET TO LIGHT FOOT TRAFFIC

Floors are set to light foot traffic after approx. 24 hours.

READY FOR USE

Surfaces are ready for use after approx. 14 days.

Cleaning

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

CONSUMPTION

Standard consumption:

1. 5 kg/m² for every mm thickness of adhesive.

NB: The consumption may be changed due to substrate condition, weather and labor skill.

PACKAGING

Keraset is supplied in white and grey 25 kg paper bags.

TECHNICAL DATA (typical values)

In compliance with:

- ISO 13007 as C1
- American ANSI A 118.1 – 1999
- TCVN 7899-2:2008

PRODUCT IDENTITY

Consistency:	powder
Colour:	white or grey
Bulk density (kg/m ³):	1300
Dry solids content (%):	100
EMICODE:	EC1 PLUS - very low emission

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

Mix ratio:	100 parts Keraset with 23-25 parts of water by weight
Consistency of mix:	pasty
Density of mix (kg/m ³):	1400
pH of mix:	over 12
Pot life:	6-8 hours
Application temperature:	from +5°C to +35°C
Open time (according to EN 1346):	> 20 minutes
Adjustability time:	approx. 45 minutes
Wall grouting:	after 3-6 hours depending on absorbency
Floor grouting:	after 24 hours
Set to light foot traffic:	24 hours
Ready for use:	14 days

FINAL PERFORMANCES

Adhesion according to EN 1348 (N/mm ²): – initial adhesion (after 28 days): – adhesion after heating: – adhesion after water immersion: – adhesion after freeze-thaw cycles:	1.0 0.60 0.80 0.90
Resistance to damp:	excellent
Resistance to ageing:	excellent
Resistance to solvents and oils:	excellent
Resistance to acids and alkalis:	poor
Resistance to temperature:	from -30°C to +90°C

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STORAGE

12 months when stored in a dry place.

SAFETY INSTRUCTION FOR PREPARATION AND INSTALLATION

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.com.vn

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.vn

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.



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.

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Nghiêm cấm mọi hình thức sao chép bất hợp pháp nội dung và hình ảnh trong tài liệu này.

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