



# Mapeset



**Especially fine  
non-slip cementitious  
adhesive for absorbent  
ceramic tiles**



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

**Mapeset** is a cementitious (C) adhesive for interior installation of ceramic tiles according to ZA Attachment of the European Standard 12004.

*Mapeset has obtained the CE mark, checked by the ITT nr. 4005958 certificate issued by the Applus Certification Technological Center laboratory of Bellaterra (Barcelona) Spain.*

## **WHERE TO USE**

For interior fixing of ceramic tiles and ceramic mosaics, double-fired or single-fired on floors and walls on cementitious substrates or gypsum substrates (for the latter with prior application of a suitable primer).

## **Some application examples**

For fixing paper faced or mesh backed ceramic mosaics and absorbent double-fired or single-fired ceramic tiles on:

- cement-rendered walls;
- brick walls;
- cementitious based screeds, sufficiently dry and cured.

## **TECHNICAL CHARACTERISTICS**

**Mapeset** is a powder, grey or white, composed of cement, sand of selected granulometry, synthetic resins

and special additives according to a formula developed in MAPEI's research laboratories.

**Mapeset** mixed with water becomes a fine easily trowellable creamy paste that can be applied even vertically without slipping of the tiles.

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

## **RECOMMENDATIONS**

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

- on wood or wood agglomerates;
- on gypsum board or expanded cement;
- on metallic, rubber, PVC, linoleum surfaces;
- for fixing glass mosaics;
- on prefabricated concrete or surfaces subject to strong movement;
- on heated or existing floors;
- if the surface needs to be open to traffic quickly.

## **APPLICATION PROCEDURES**

### **Substrate preparation**

The surface must be cured, mechanically resistant, free



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Mapeset mix made with mechanical stirrer



Installation of ceramic tiles on a wall



Adhesive with high thixotropy

from loose particles, grease, paint, wax and sufficiently dry.

The cementitious substrates must not be subjected to shrinkage or strong movement after tile installation.

In favourable atmospheric conditions, renders must have cured for a least 1 week per cm thickness. 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 **Topcem Pronto**.

Gypsum and anhydrite screeds must be perfectly dry (maximum residual humidity 0.5%), sufficiently hard, free of dust. It is compulsory to treat such surfaces with **Primer G** or **Mapecrim SP**. Areas subject to humidity (e.g. bathrooms, showers, kitchens) should be treated with **Primer S**.

## Preparation of the mixture

**Mapeset** must be mixed with clean water, to obtain a homogeneous lump-free paste. After a few minutes of resting, it must be remixed and the paste is then ready for use. The quantity of water to be used is from 24-26 parts per 100 parts (by weight) equal to 6-6.5 litres of water per 25 kg of **Mapeset**. The mixture obtained in this way, can be used for 4-6 hours.

## Application of the mixture

**Mapeset** is applied on the substrate with a notched trowel. Choose a trowel that will give coverage of at least 65-70% on the back of the tile.

To obtain good adhesion to the substrate, the following procedure is recommended: first apply a thin layer of **Mapeset** using the smooth side of the trowel and immediately afterwards apply the required thickness of **Mapeset** using the notched side of the correct trowel.

In particular:

- for ceramic mosaics, size up to 5 x 5 cm, the use of MAPEI No. 4 square-notched trowel is recommended (consumption 2 kg/m<sup>2</sup>);
- for normal ceramic tiles, the use of MAPEI No. 5 notched trowel is recommended (consumption 2.5-3 kg/m<sup>2</sup>);
- for very irregular surfaces or tiles with rough back, the use of MAPEI No. 10 trowel is recommended (consumption about 6 kg/m<sup>2</sup>).

## 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 immersing in clean water. The tiles must be installed in the normal way, pressing firmly to ensure good contact with the adhesive. The open time of **Mapeset** under normal conditions of temperature and humidity is 15-20 minutes. Unfavourable conditions (dry wind, high temperatures) as well as a very

absorbent substrate could drastically reduce the open time to a few minutes.

It is necessary to constantly check that no superficial film has been formed on the adhesive surface and it is still fresh. In case of the superficial film being formed, the adhesive must be re-applied with the notched trowel.

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

Gaps must be left in-between the tiles varying from 2 mm to 5 mm depending on the tile formats.

Eventual adjustment of the tiles must be done within 20 minutes from the installation.

Tiles installed with **Mapeset** must be protected from the frost for 5-7 hours after installation.

## GROUTING AND SEALING

Wall joints between the tiles can be grouted after 3-6 hours. Floor joints can be grouted after 24 hours with the specific MAPEI cementitious or epoxy grouts, available in various colours.

Expansion joints must be sealed with the specific MAPEI sealants.

## SET TO LIGHT FOOT TRAFFIC

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

## READY FOR USE

Surfaces are ready for use after about 14 days.

## Cleaning

Tools and hands can be cleaned with water, tile surfaces can be cleaned with a damp cloth.

## CONSUMPTION

### Fixing of ceramic mosaics

- Small formats in general (trowel No. 4): about 2 kg/m<sup>2</sup>
- Normal size tiles (trowel No. 5): 2.5-3 kg/m<sup>2</sup>
- Tiles with rough back-profile or on irregular substrate (trowel No. 10) about 6 kg/m<sup>2</sup>

## PACKAGING

**Mapeset** is supplied in white and grey colours packed in 25 kg paper bags.

## STORAGE

12 months stored in a dry place in the original sealed packaging.

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

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Contains cement that when in contact with sweat or other body fluids produces an

**TECHICAL DATA (typical values)**

According to the standard:

– European EN 12004, ZA Attachment

**PRODUCT (IDENTITY)****Consistency:**

powder

**Colours:**

grey or white

**Bulk density (g/cm³):**

1,300

**Dry solids content (%):**

100

**Storage:**

12 months in a dry place in original sealed packaging

**Hazard classification according to EC 1999/45:**

Irritant.  
Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet

**Customs code:**

3824 50 90

**APPLICATION DATA (at +23°C - 50% R.H.)****Mixing ratio:**100 parts of **Mapeset** with 24-26 parts of water by weight**Consistency of mix:**

paste

**Density of mix (kg/m³):**

1,500-1,600

**pH of the mixture:**

about 12

**Pot life:**

4-6 hours

**Application temperature:**

from +5°C to +35°C

**Adjustability time:**

about 20 minutes

**Wall grouting:**

after 3-6 hours

**Floor grouting:**

after 24 hours

**Set to light foot traffic:**

24 hours

**Ready for use:**

14 days

# Mapeset

irritant alkaline reaction and allergic reaction in sensitive persons. Wear protective gloves and goggles.  
For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

## WARNING

Although the technical details and recommendations contained in this 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 applications: 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.

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



(GB) A.G. BETA

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