



# Mapeset

## Cementitious adhesive for absorbent ceramic tiles on walls and floors



### 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 grey powder, 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 ties.

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

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



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Mapeset mix made with mechanical stirrer



Installation of ceramic tiles on a wall using Mapeset with high thixotropic properties

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 **Eco Prim T**. 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 4.6 litres of water per 20 kg of **Mapeset**. The mixture remains workable for approximately 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>).

### Installation of 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 and floor joints can be grouted after 12 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 20 kg paper bags.

### STORAGE

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

### SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

**Mapeset** is an irritant as it contains cement that when in contact with sweat or other bodily fluids causes an irritant

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

<b>Consistency:</b>	powder
<b>Colours:</b>	grey
<b>Bulk density (g/cm<sup>3</sup>):</b>	1,300
<b>Dry solids content (%):</b>	100
<b>Ecode:</b>	EC1 R Plus - Very low emissions

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

<b>Mixing ratio:</b>	4.6 Litres of water per 20Kg of <b>Mapeset</b>
<b>Consistency of mix:</b>	paste
<b>Density of mix (kg/m<sup>3</sup>):</b>	1,500-1,600
<b>pH of the mixture:</b>	about 12
<b>Pot life:</b>	4 - 6 hours
<b>Application temperature:</b>	from +5°C to +40°C
<b>Adjustability time:</b>	about 20 minutes
<b>Wall grouting:</b>	after 12 hours
<b>Floor grouting:</b>	after 24 hours
<b>Set to light foot traffic:</b>	24 hours
<b>Ready for use:</b>	14 days

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alkaline reaction and allergic reactions to those predisposed. During use wear protective gloves and goggles, and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

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.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

### 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](http://www.mapei.com).***

***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.



**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.

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



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