



Mapeset



Cementitious non-slip fine powder adhesive for absorbent ceramic tiles

CLASSIFICATION IN COMPLIANCE WITH EN 12004

Mapeset is a cementitious (C) adhesive in compliance with attachment ZA, standard EN 12004, for interiors.

WHERE TO USE

For interior fixing of ceramic tiles and ceramic mosaics, double-fired or single-fired on floors and walls on cementitious substrates.

Some application examples

For front and reverse side fixing of ceramic mosaics and absorbent ceramic tiles double-fired or single-fired on:

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

TECHNICAL CHARACTERISTICS

Mapeset is a white or 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 tiles.

Mapeset hardens without appreciable shrinkage

attaining a good resistance, bonding 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 movements;
- on heated or existing floors;
- if the surface needs to be open to traffic quickly.

APPLICATION PROCEDURES

Preparing the substrate

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 the tiles installation. In favourable ambiental conditions, renders must have cured for a least 1 week per cm thickness. Cementitious screed must have cured at least 28 days, unless they have been made with MAPEI special binders for screeds such



Mapeset

as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**.

Preparing the mix

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 23-25 parts per 100 parts (by weight) equal to 5.75-6.25 litre of water per 25 kg of **Mapeset**. The mixture obtained in this way, can be used for 4-6 hours.

Applying the mix

Mapeset is applied 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 trowel.

In particular:

- for ceramic mosaics, size up to 5x5 cm, the use of MAPEI no. 4 square-notched trowel is recommended (consumption 2 kg/m²);
- for normal ceramic tiles, the use of MAPEI no. 5 notched trowel is recommended (consumption 2.5-3 kg/m²);
- for irregular surfaces or tiles with rough back-reliefs, the use of MAPEI no. 10 trowel is recommended (consumption about 6 kg/m²).

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 10-15 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 ²
Normal size tiles (trowel no. 5):	2.5-3 kg/m ²
Tiles with rough back-relief or on irregular substrate (trowel no. 10):	about 6 kg/m ²

PACKAGING

Mapeset is supplied in white or grey, packed in 25 kg paper bags.

STORAGE

12 months stored in a dry place.

SAFETY INSTRUCTION FOR PREPARATION AND INSTALLATION

Contains cement that when in contact with sweat or other body fluids produce an irritant alkaline reaction. Use protective gloves and goggles. For further information refer to the safety data sheet.

FOR PROFESSIONALS.

WARNING

Although the technical details and recommendations contained in this product report 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



Mixing of Mapeset with a mechanical stirrer



Fixing ceramic tile on wall



Adhesive with high slip-resistance

TECHNICAL DATA (typical values)

In compliance with:

– european EN 12004, Attachment ZA

PRODUCT IDENTITY

Consistency:	powder
Colour:	white or grey
Bulk density (kg/m³):	1,300
Dry solid content (%):	100
Storage:	12 months in a dry place in original 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 packing and Safety Data Sheet
Customs class:	3824 50 90

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

Mix ratio:	100 parts Mapeset with 23-25 parts of water by weight
Consistency of mix:	pasty
Density of mix (kg/m³):	1,500
pH of mix:	over 12
Pot life:	4-6 hours
Application temperature:	from +5°C to +35°C
Open time (according to EN 1346):	approx. 10 minutes
Adjustability time:	approx. 20 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/mm²):	
– initial adhesion (after 28 days):	0.8
– adhesion after heating:	0.5
– adhesion after water immersion:	0.7
– adhesion after freeze-thaw cycles:	0.8
Resistance to damp:	excellent
Resistance to ageing:	excellent
Resistance to solvents and oils:	excellent
Resistance to acids and alkalis:	poor

Mapeset



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