

High-performance, deformable cementitious adhesive with no vertical slip and extended open time, for ceramic tiles and stone material including in large format.





CLASSIFICATION ACCORDING TO AS ISO 13007.1

Large Format Tile Adhesive is a cementitious (C), improved (2), with no vertical slip (T) and extended open time (E) deformable (S1) adhesive.

WHERE TO USE

Internal and external bonding, both on floors and walls, of ceramic tiles of all types and formats (thin ceramic tiles, double-fired, single-fired, clinker, terracotta etc.), stone material which is dimensionally stable and not sensitive to moisture or staining and all types of mosaics.

Depending on areas of use and amount of mixing water, Large Format Tile Adhesive can have either a fluid consistency, suitable for a good wetting of large format tiles installed on floors, or a thixotropic consistency that prevents tiles from slipping when applied on walls.

Some application examples

- Bonding ceramic tiles, stone material not sensitive to moisture and mosaic on the following substrates:
 - well cured, dry cementitious screeds and screeds made from special binders (such as **Topcem** and **Mapecem**);
 - heated floors;
 - sound, well cured concrete floors;
 - cementitious and lime/cement render on internal and external facades:
 - internal cellular cement block walls treated with Primer G;
 - dry gypsum and anhydrite treated with **Primer G**;

- plasterboard fastened to a rigid support;
- waterproofing membranes made from
 Mapegum WPS or Mapelastic range of products;
- Uncoupling, anti-fracture waterproofing membrane such as Mapeguard UM 35.
- Spot-bonding insulating materials such as foam polyurethane, Rockwool, glass fibre wool, polystyrene and cork soundproofing panels, etc.
- Overlaying old floors with ceramic tiles, terrazzo and stone material.
- Bonding tiles in swimming pools and tanks.
- Bonding on façades.

TECHNICAL CHARACTERISTICS

Large Format Tile Adhesive is a white-coloured powder made from cement, selected graded sand, a high rate of synthetic resins and special additives according to a formula developed in MAPEI research laboratories. Large Format Tile Adhesive has very low emission of volatile organic compounds (VOC) and safeguards the quality of the air and health of both installers and end users; the product is thus certified as FC1 Plus

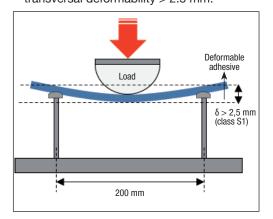
The use of **Large Format Tile Adhesive** contributes to the earning of important LEED credits. When mixed with water it forms mortar with the following characteristics:

good workability;



TECHNICAL DATA (typical values) Conformity with:	– AS ISO 13007-1 (C2TES1)
PRODUCT IDENTITY	
Consistency:	powder
Colour:	white
Bulk density (kg/m³):	1400
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission
APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	- C2TES1 class: 100 parts of Large Format Tile Adhesive with 25-27 parts of water by weight
Consistency of mix:	thick paste
Density of mix (kg/m³):	1500
pH of mix:	>12
Pot life of mix:	over 8 hours
Application temperature range:	+5°C to +40°C
Open time:	> 30 mins.
Adjustment time:	- approx. 45 minutes (C2TES1 class)
Grouting joints in wall tiles:	after 4-8 hours
Grouting joints in floor tiles:	after 24 hours
Set to foot traffic:	24 hours
Ready-to-use:	14 days
FINAL PERFORMANCE	
Adhesion (MPa): - initial adhesion (after 28 days): - adhesion after application of heat source: - adhesion after immersion in water: - adhesion after freeze-thaw cycles:	2.3 2.1 1.2 1.4
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor to vegetable oils)
Resistance to solvents:	excellent
Service temperature:	-30°C to +90°C
Deformability:	S1 - deformable

- can be applied on vertical surfaces without dripping or causing tiles to slip;
- extended open and adjustment times to make laying operations easier;
- good capacity to absorb deformations in the substrate and tiles. S1 class adhesive: transversal deformability > 2.5 mm.



RECOMMENDATIONS

Do not use Large Format Tile Adhesive:

- on not sufficiently cured concrete;
- on precast concrete or concrete subject to large movements;
- on wood or wooden conglomerates;
- on metal, linoleum, rubber or PVC surfaces;
- with marble slabs, natural stone or composite slabs subject to staining, efflorescence or movements caused by damp;
- on floors and dressing materials subject to large movements or vibrations.

APPLICATION PROCEDURE Preparation of the substrate

Substrates must be even, strong and free of crumbling areas, grease, oil, varnish or wax. Large Format Tile Adhesive may take longer to set on damp substrates.

Cementitious substrates must not shrink after laying tiles. Therefore, in good weather,

render must be cured for at least one week per cm of thickness, while cementitious screeds must be cured for at least 28 days, unless they are made from MAPEI special binders and ready-mixed screed mortar, such as Mapecem, Mapecem Pronto, Topcem or Topcem Pronto.

If the surface is too hot due to direct sunlight, cool it down with water.

In damp environments, use **Mapegum WPS** or products from the **Mapelastic** range to waterproof the substrate.

Preparation of the mix

Blend Large Format Tile Adhesive with clean water using an electric mixer to obtain a smooth, lump-free mix. Let the mix stand for around 5 minutes, then blend again. Mix 25-27 parts of water with 100 parts by weight of Large Format Tile Adhesive (5.0-5.4 litres of water per 20 kg bag of white version). The pot life of the obtained mix is approx. 8 hours.

Spreading the mix

Apply Large Format Tile Adhesive on the substrate with a notched trowel. Use a trowel that allows complete wetting of the back of the tile. To guarantee a good bond, apply a thin layer of Large Format Tile Adhesive on the substrate using the smooth side of the spreader and then immediately apply a second layer of Large Format Tile Adhesive to form the thickness required using a notched trowel suitable for the type and size of tiles to be bonded.

In case of highly absorbent substrates and high temperatures, it is recommended to dampen the substrate before spreading Large Format Tile Adhesive, to help extending the adhesive's open time. In case of external installation, installation of large format ceramic tiles, heated floors, floors to be polished after laying or subject to heavy loads, application in water tubs or swimming pools, apply the back-buttering technique by spreading the adhesive on the back of the tiles to ensure complete wetting.

Bonding tiles

Tiles do not need to be wet before they are laid. However, if the back of the tiles is particularly dusty, it is recommended to wash them by dipping them in clean water. When bonding tiles, apply firm pressure to guarantee good wetting. The open time for Large Format Tile Adhesive is approximately 30 minutes in normal weather conditions. When laying conditions are not ideal (direct sunlight, dry wind, high temperatures, etc.), or if the substrate is particularly absorbent, this time may reduce to just a few minutes. Therefore, check often to make sure skin does not form on the surface of the adhesive and that it is still fresh. If skin forms, spread the adhesive again with the notched spreader.

Do not wet the surface of the adhesive if a skin forms. Water does not dissolve the skin and impedes correct adhesion. Final adjustment of the tiles must be carried out within 60 minutes of bonding. Tiles and stone bonded with **Large Format Tile Adhesive** must be protected from water and rain for at least 24 hours and from freezing weather and direct sunlight for at least 5 to 7 days.

Grouting and sealing

Tile joints may be grouted after 4 to 8 hours on walls and after 24 hours on floors. Use a MAPEI cementitious or epoxy grout, available in a wide variety of colours. Seal expansion joints using a suitable MAPEI sealant.

SET TO FOOT TIMES

Floors may be stepped on after around 24 hours.

WAITING TIME BEFORE USE

Surfaces are ready to use after approx. 14 days.

Water tubs and swimming pools can be filled after 21 days.

Cleaning

Clean tools and containers with water while **Large Format Tile Adhesive** is still fresh. Clean the surface of tiles with a damp cloth before the adhesive hardens.

CONSUMPTION

1.2 kg/m² per mm of thickness.

PACKAGING

Large Format Tile Adhesive white is available in 20 kg paper bags.

STORAGE

Large Format Tile Adhesive, under normal conditions and in its original paper bags, can be stored for 12 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Large Format Tile Adhesive contains cement, that when in contact with sweat or other body fluids causes an irritant alkaline reaction and allergic reactions to those subjects predisposed. It can cause eye damage.

During use wear protective gloves and take the usual precautions for the handling of 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 the product please refer to the latest version of the Safety Data Sheet.



PRODUCT FOR PROFESSIONAL USE.

WARNING

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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.au

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.au

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 (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

All relevant references for the product are available upon request and from www.mapei.com.au

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