

# MasterTile 420

**Adhesive class C2 TE fibre-reinforced with polymeric fibers, for laying vertical and horizontal coverings, even in large format. For indoor and outdoor use with thickness up to 15 mm.**

## MATERIAL DESCRIPTION

MasterTile 420 is a premixed, Class C2 TE powder adhesive (cement-based with improved adhesion, no slip and extended open time), with special polymeric fibres additive, white or grey in colour, resistant to frost, specific for laying wall and floor tiles. For outdoor and indoor use. Application with notched trowel. Maximum thickness 15 mm.



## MAIN FIELDS OF APPLICATION

MasterTile 420 has been designed and formulated for laying wall and floor medium and low absorption ceramic tiles such as single-fired, double-fired, terracotta, klinker, porcelain stoneware tiles, etc., even in large format. It ensures an excellent adhesion on most of the substrates such as:

- Plaster and cement mortars
- Cement slabs
- Masonry mortars
- Prefabricated or cast in situ concrete
- Plasterboard
- Cement slabs also self-levelling
- Heating floors.

MasterTile 420 is distinguished by excellent workability, making both wall and floor applications simple and particularly reliable.

MasterTile 420 can also be used for overlapping applications after careful cleaning of the old flooring (with specific basic cleaner or wax remover if necessary), surface sanding, dedusting and any subsequent

## FEATURES AND BENEFITS

MasterTile 420 complies with the strict emission requirement for EC 1<sup>PLUS</sup> – EMICODE class (regulated by GEV GMBH).




MasterTile 420 is an adhesive complying with the performance requirements of European Standard **EN 12004**, for laying coatings on walls and floors and is graded **C2 TE** where:

- C stands for cement
- 2 indicates improved adhesion
- T indicates no vertical slip
- E indicates extended open time.



In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 12004 and the relative DoP (Declaration of Performance).

 1305
<b>EN 12004</b>
Improved cementitious adhesive for internal and external use with reduced slip and extended open time (C2TE)

## CONSUMPTION

The average consumption (varies according to the surface flatness and to the format of tile used) is 2.2÷4.2 kg/m<sup>2</sup>.

## PACKAGING

25 kg paper bag.

## STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +35°C.

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Technical Information		
Colour	White or grey	
Granulometry	≤ 0,6 mm	
Density of the hardened product	1,48 kg/lt	
Mix water	30-32%	
Mixture's rest period	10 minutes	
Mixture's useful life	3 hours	
Open time	30 minutes	
Maximum thickness achievable	15 mm	
Walkability	24 hours	
Grouting wall joints	6 hours	
Grouting floor joints	24/48 hours	
Return to service	14 days	
Operating temperature	-30 ÷ +90°C	
Temperature of application	From 5°C to 35°C	
Packaging	25 kg.bag	
Consumption	2.2-4.2 kg/mq	
Essential characteristic with a dosage of water of 31%		Performances
Initial adhesion at 28 days, EN 1348	EN 1348	≥ 1,5 N/mm <sup>2</sup>
Adhesion after the action of the heat, EN 1348	EN 1348	≥ 1,5 N/mm <sup>2</sup>
30 minutes adhesion	EN 1348	≥ 0,5 N/mm <sup>2</sup>
Adhesion after immersion in water, EN 1348	EN 1348	≥ 1,0 N/mm <sup>2</sup>
Adhesion after freeze/thaw cycles, EN 1348		≥ 1,0 N/mm <sup>2</sup>
Moisture resistance		Excellent
Resistance to ageing		Excellent
Resistance to solvents and oils		Excellent
Flexibility		Good
Fire reaction		Class F

## APPLICATION SHEET

### SUBSTRATE PREPARATION

Check that the surface on which MasterTile 420 will be applied is consistent, clean, flat and normally absorbent. The substrates must be well cured, dry and not subject to shrinkage after the laying of the coating. If the surfaces are excessively warm it is necessary to spray them with water before applying MasterTile 420. Highly absorbent surfaces and surfaces in gypsum or anhydrite must be treated with MasterEmaco P110 6 hours before the application of MasterTile 420.

### MIXING

Do not start mixing MasterTile 420 if the environmental temperature or the temperature of the substrate is lower than +5°C or higher than +35°C and if temperatures around 0°C or even lower are foreseen 24 hours after the application.

The mixing should be performed using a low speed mixer.

MasterTile 420 is mixed with about 7,8 liters of water (31%) for each 25kg bag, mixing must continue for 3-4 minutes until obtaining a homogeneous mixture free of lumps. Stop mixing for about 10 minutes to "rest" the mixture, then mix briefly and proceed to the application.

### APPLICATION

MasterTile 420 must be applied in the maximum thickness of 15 mm using a notched trowel with a toothed profile side of suitable depth and the other side with a linear profile.

Apply the appropriate thickness of MasterTile 420, by applying a first coat with the flat part of the notched trowel taking care of vigorously pressing the product on the substrate, immediately after the product must be "scratched" by the toothed side of the notched trowel. This operation allows the regularization of the surfaces and the incorporation of any dust residues that might make the adhesion of MasterTile 420 to the substrate difficult.

Proceed to the laying of the coating by checking at regular time intervals that a covering film did not form on the

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surface of MasterTile 420 applied, in this case work again the area affected by the phenomenon with a small quantity of MasterTile 420 fresh. Then proceed to positioning the tiles hitting them thoroughly with a rubber hammer and setting them apart, with suitable spacers, in function of the width of the grooves that you want to achieve.

For particular uses, e.g. in very busy premises, outdoor, for large formats and for materials to be smoothed in situ, it is necessary to resort to a double coating of MasterTile 420 both on the substrate and on the back of the tiles in order to ensure better adhesion and that the tile backs are properly wetted.

## WARNINGS

- Do not apply at temperatures lower than + 5°C or higher than + 35 °C, and if temperatures around 0°C or even lower are foreseen 24 hours after the application.
- Do not apply on inconsistent or crumbly substrates.
- Do not apply on metal, vinyl, linoleum, wood, rubber surfaces, or on bituminous sheaths.
- Do not apply on frozen or thawing substrates, or that may be subject to frost in the subsequent 12 hours.
- Do not apply in full sun or with strong wind and/or on heated surfaces.
- Do not add water to the mixture once the setting phase has started.

## SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

## OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website [www.master-builders-solutions.com/it-it](http://www.master-builders-solutions.com/it-it) or contact [infomac@mbcc-group.com](mailto:infomac@mbcc-group.com).

Scan the QR code to visit the product page and download the latest version of this datasheet.



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