

# MasterTile FLX 425

**Class C2TE S1 adhesive for laying floor and wall coverings even of large size and in continuous contact with water. For indoor use with thickness up to 10 mm.**

## MATERIAL DESCRIPTION

MasterTile FLX 425 is a premixed adhesive, Class C2TE S1 (cement-based, with improved adhesion, no vertical slip, with extended open time and deformable), white or grey in colour, resistant to frost, specific for laying coatings that are little absorbent and large format. For indoor and outdoor use and on surfaces in continuous contact with water. Maximum thickness of application 10 mm.



## MAIN FIELDS OF APPLICATION

MasterTile FLX 425 has been designed and formulated for laying coatings such as single-fired, double-fired, terracotta, klinker, porcelain stoneware tiles, stone, etc., on walls and floors. It is indicated for laying small sizes tiles also non-absorbing (glass mosaic) and on substrates intended to continuous immersion (swimming pools, tanks).

MasterTile FLX 425 may be applied directly onto existing floorings, surfaces in contact with water, deformable surfaces and heating floors, it also allows to lay large formats.

It ensures an excellent adhesion on most of the substrates normally widespread in the construction industry such as:

- Plaster and cement mortars
- Masonry mortars, cement slabs
- Prefabricated or cast in situ concrete
- Plasterboard
- Slabs also self-levelling
- Old flooring
- Heating floors
- Laying in swimming pools (large formats and mosaic)
- Deformable substrates.

It allows to lay new coatings on existing paving tiles. It is a product with very high workability and thixotropy, it may be applied for up to a maximum thickness of 10 mm.

## FEATURES AND BENEFITS

MasterTile FLX 425 is a high performance premixed adhesive in powder, white or grey in colour, deformable, frost resistant, thixotropic, with a distinctive workability that ensures an excellent adhesion to most of the coatings and supports normally widespread in the construction industry. It has a very reduced shrinkage that ensures high adhesion over time, it can be walked on after 24 hours from the laying.

MasterTile FLX 425 complies with the strict emission requirement for EC 1<sup>PLUS</sup> – EMICODE class (regulated by GEV GMBH).

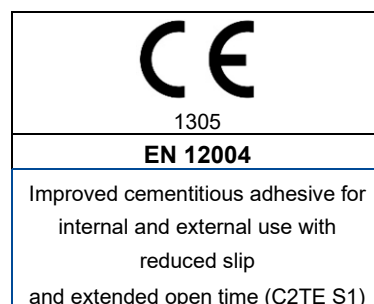


MasterTile FLX 425 meets the performance requirements of European Standard **EN 12004**, for the laying of coatings on walls and floors and is graded **C2TE S1** where:

- C stands for cement
- 2 indicates improved adhesion
- T indicates no vertical slip
- E indicates extended open time
- S1 indicates deformable.



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).



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## CONSUMPTION

The average consumption (varies according to the surface flatness and to the format of tile used) is 2.5÷4.5kg/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.

Technical Information		
Colour		White or grey
Granulometry		≤ 0,6 mm
Density of the hardened product		1,46 kg/lt
Mix water		28%
Mixture's rest period		10 minutes
Mixture's useful life		3 hours
Open time		30 minutes
Maximum thickness achievable		10 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		2.5-4.5 kg/mq
Essential characteristic with a dosage of water of 28%		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
Resistance to acids and alkalis		Poor
Flexibility		Good
Fire reaction		Class F
Elasticity (transversal deformation)	EN 12002	≥ 2,5 mm e <5 mm

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## APPLICATION SHEET

### PREPARING THE SUBSTRATE

Check that the surface on which MasterTile FLX 425 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 FLX 425. Surfaces in gypsum or anhydrite must be treated with MasterEmaco P110 6 hours before application of MasterTile FLX 425.

MasterEmaco P110 is also suitable for the preventive treatment of highly absorbent substrates.

### MIXING

Do not start mixing MasterTile FLX 425 if the environmental temperature or the temperature of the substrate is lower than +5°C or higher than +35°C. MasterTile FLX 425 must be mixed with about 5,6 litres of water (28%) per 20 kg until obtaining a homogeneous mixture, with plastic consistency and free of lumps. Allow the mixture to rest for 10 minutes, stir briefly and use.

### APPLICATION

MasterTile FLX 425 must be applied in the maximum thickness of 10 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 FLX 425, 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 FLX 425 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 surface of MasterTile FLX 425 applied, in this case work again the area affected by the phenomenon with a small quantity of fresh MasterTile FLX 425.

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 premises with heavy traffic, outdoor, for large formats for materials to be smoothed in situ and for application in tanks or pools, it is necessary to resort to a double coating (both on the substrate and on the back of the coating) in order to ensure better adhesion and that the tile backs are properly wetted.

### WARNINGS

- Do not apply at temperatures below + 5°C or higher than + 35°C.
- Do not apply on frozen substrates or that may be subject to frost in a period of time of less than 24 hours.
- Do not apply on inconsistent or crumbly substrates or with the presence of scraps of the same substrate.
- Do not apply with strong wind and excessive exposure to sun.
- Do not apply on metal, vinyl, linoleum, wood, rubber surfaces, or on bituminous sheaths.

### 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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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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This version supersedes all the previous ones.