



## MA - 405 MATIFLEX



### PACKAGING

20 kg / 25 kg



### MIXING RATIO

7-7.75 L / 25kg



### CONSUMPTION

3-5 kg/m<sup>2</sup>

### Description

MA-405 MATIFLEX is a high performance cementitious flexible adhesive of the S1 classification, with extended open time and no vertical slip, for ceramic tiles and stones.

### Field of Application

- Interior and exterior floor and wall bonding of all types and sizes of ceramic tiles, natural stone, marble, granite, porcelain ceramic, clinker, cotto on cementitious renders, cementitious screeds and concrete.
- Bonding of tiles on existing ceramic tile, granite.
- Bonding of tiles on painted walls and gypsum.
- Bonding of ceramic tiles in swimming pools, basins and any other wet places.
- Bonding of tiles on terraces and balconies.
- Bonding of tiles on places where sudden temperature changes occur like cold storage depots and underfloor heating systems.
- Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals, schools.
- Approved for use with plywood.

### Properties

- Perfect adherence.
- Highly deformable thanks to its S1 classification, resistant to temperature changes.
- Can be applied on vertical surfaces even for bonding of heavy tiles, without sagging.
- Extended open time.
- Easily trowelable.

### Application

- Substrates must be sound, free from oil, grease and sufficiently dry. Cementitious substrates must be cured.
- Use repairing mortar in case of uneven substrates, to get a sound and flat surface. Use primer on anhydrite screeds.
- If dusty, wipe the back side of the tiles.
- Pour 25 kg of MA-405 MATIFLEX into 7,00 – 7.75L of clean water slowly and mix to obtain a homogeneous paste, free from lumps. A low-speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application.
- Allow the mortar to stand for 5-10 minutes to mature. After 1-2 minutes of remixing, the paste is ready for application.
- Consumption is 3-5 kg/m<sup>2</sup>.
- Consume the prepared mortar within 6 hours.

-Spread the mortar onto the substrate with a notched trowel, the notch size of which is appropriate for the tile dimension. To obtain a good adhesion, first apply a thin coat of MA-405 MATIFLEX with the flat side of the trowel, then notch with the toothed side of it. In particularly demanding applications of large tiles (Greater than 40x40cm), on existing tiles or tiles which are subject to frost or heavy traffic, MA-405 MATIFLEX should also be applied on the back of the tiles (combined method).

-Open time is 30 minutes. Install the tiles within this period of time with firm pressure. Unfavourable climatic conditions (high temperature, low humidity, wind, etc.) can reduce this time to just a few minutes. If this period is exceeded, scratch and discard the mortar.

-For walls wait 24 hours, for grounds wait 48 hours to allow the adhesive mortar to harden before grouting.

-Grouting can be opened to foot traffic after 24 hours.

-Dispose mortars, the pot life of which is expired. Clean tools and hands with water, and surfaces with a damp cloth.

-Tiles installed with MA-405 MATIFLEX must not be subject to water for at least 24 hours.

-Product application temperature and storage conditions should be between +5°C and +35°C.

### Shelf Life

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

### Storage

Store in dry medium. Do not stack more than 10 bags on top of each other.

## TECHNICAL DATA (IN +23°C AND 50% RH.)

Form	Powder
Colour	Grey/White
Storage	12 months when stored in the original sealed packaging in a dry place.
Mixing Ratio	7-7.75 litres of water / 25 kg grey powder 7-7.5 litres of water / 25 kg white powder
Application Temperature	(+5°C) - (+35°C)
Application Thickness	Up to 10mm
Pot Life	6 Hours
Slip (EN 12004-2)	≤0.5mm
Open Time (EN 12004-2)	After 30 minutes ≥ 0.5 N/mm <sup>2</sup>
Tensile Adhesion Strength (EN 12004-2)	
- Initial	≥ 1 N/mm <sup>2</sup>
- After Heat Exposure	≥ 1 N/mm <sup>2</sup>
- After Immersion in Water	≥ 1 N/mm <sup>2</sup>
- After Freeze/Thaw Cycles	≥ 1 N/mm <sup>2</sup>
Deformability (EN 12002)	≥ 2.5mm – S1 Deformable
Service Temperature Range	(-40°C) - (+80°C)
Reaction to Fire	A2
Dangerous Substances	See SDS