



BE SURE. BUILD SURE.

MC-M 21

TILE ADHESIVE



Product properties

- Classified as high-performance tile adhesive - C2 according to EN 12004 and TCVN 7899.
- Excellent bonding strength.
- Durable and long-lasting solution for large format tiles/ stones.
- Tile-on-tile solution, suitable for renovation works.
- Suitable for interior, exterior areas and swimming pool tiling solution.
- Excellent workability, sagging improvement.

Areas of application

- Compatible with a wide range of tiles and stones, such as ceramic, terracotta, glass mosaic, natural stones, stoneware, porcelain...
- Enable to fix up to 120x120cm tiles/stones^(*).
- Tile-on-tile: Fixing tile on existing tiling floors and walls.
- Applied for both walls and floors in most areas: showers, toilets, kitchens, living rooms, balcony, roof, swimming pools, facade...^(*)

^(*) Please contact us for further details.



Product properties

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color | Grey, White |
| Packaging | 25kg bag |
| Cleaning | Cleaning with water while the material is fresh. Hardened material can only be mechanically removed. |
| Storage and shelf-life | 12 months from manufacturing date if stored in original, unopened and undamaged bag. Opened packaging must be stored in dry and ventilated conditions. |

Technical data

| Characteristics | Unit | Value | Comments |
|---------------------------------------------------|-----------------------|----------------------|--------------------------------------------------------------------|
| Consistency | | Pre-mixed dry mortar | |
| Mixing ratio with water | % | 23 - 25 | By weight |
| Mortar bulk density | g/cm ³ | 1.2 - 1.4 | |
| Wet density | g/cm ³ | 1.4 - 1.6 | |
| Consumption | kg/m ² /mm | ~1.5 | Depend on tile sizes, substrate levelness and application methods. |
| Required thickness | mm | 2 - 10 | |
| Application condition | °C | +10 to +30 | |
| Pot-life | Hour | ~3 | |
| Open time | Minute | ≥ 20 | |
| Adjusting time | Minute | 15 | |
| Grouting and sealings | Hour | 24 | |
| Foot - trafficable | Hour | 24 | |
| Full mechanical load | Day | 7 | |
| Slip | mm | ≤ 0.5 | EN 12004-2, 8.2 |
| Bonding strength: | | | |
| - Initial tensile adhesion strength | N/mm ² | ≥ 1.0 | |
| - Tensile adhesion strength after water immersion | N/mm ² | ≥ 1.0 | EN 12004-2:2017, 8.3 |
| - Tensile adhesion strength after heat aging | N/mm ² | ≥ 1.0 | |

* All technical data are laboratory conditions (23°C and RH 60%) and may vary in practical application due to ambient and site conditions.



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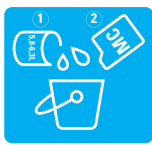
Application advice

Substrate preparation

- Substrates must be clean, solid, stable and free of any loose materials; free of grease, oil, tar, bitumen or release agent which may affect the adhesion.
- Absorbent substrate should be saturated before applying but no standing water.



Mixing



- Mixing ratio is 23-25% by weight, a bag of 25kg of MC-M 21 with 5.8-6.3 liter of clean water.
- Gradually add MC-M 21 to clean water.



- Use a slow-speed electric mixer and mix for a minimum of 3 minutes to obtain a lump-free and homogeneous mixture.



- Leave the mixture for a maturity time of 4-5 minutes before applying. Re-mix a minute if necessary.

Application



- The pot-life of MC-M 21 is approx. 3 hours, depending on application and ambient conditions.
- Apply a thin layer onto the prepared substrate with the flat side of a notched trowel. Then use the notched side to spread evenly the right amount of MC-M 21.
- The notches' sizes depend on the tile sizes. The bigger tiles, the larger dimension of notches.



- The tile should be immediately placed on the tile adhesive. Within 15 minutes, the tile can be slightly adjusted to its final position.



- The back-buttering method, applying the adhesive on both the tiles' back and the substrate, is required in case of large format tiles and floor application in order to ensure cavity-free adhesive layers and significantly improve bonding strength.

General information: The time-related data stated in this datasheet are for reference only and will be affected by ambient conditions. High temperature and/or low humidity quicken the drying process whereas low temperature and/or high humidity retard it.

Avoid direct sunlight and windy as well as heavy mechanical stress and vibration during curing since this severely affects the final bonding strength. Substrates heated up under extreme weather should be pre-wetted and cooled down before applying.

The consumption varies with application methods, applicator skills, kind of notched trowel as well as with tile sizes and substrate levelness/roughness. Trial application is highly recommended in order to accurately determine the practical coverage.

Safety instructions: Please note the safety information and advice given on the packaging labels and safety data sheets.

Disclaimer: The information provided here is based on our experience and correct to the best of our knowledge. All instructions must be adapted to suit the individual building projects, the application purpose and the specific local conditions. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing.

In any case, the generally accepted technical rules must be adhered to.

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