

MasterTile® 401

Cementitious flooring mortar for medium to thick bed fixing of tiles and pavers

DESCRIPTION

MasterTile 401 is a cementitious powder formulated with aggregates for high performance thick bed fixing in a wide range of floor tiling and paving applications.

TYPICAL APPLICATIONS

- Suitable for internal and external floor applications.
- Can be used as a pourable mortar, making it easier to achieve a solid bed for high traffic applications.
- Can also be used to pre-level localized areas before fixing tiles or pavers.
- Suitable for use in kitchens, showers and wet process areas.

MasterTile 401 is a blend of Portland cement, graded aggregates and organic polymer.

ADVANTAGES

- Precision made
- Easy to use
- Very good adhesive bond strength

PACKAGING

MasterTile 401 is available in 25 kg bags.

TYPICAL PROPERTIES*

Colours	Grey & White
Flash point	None
Service temperature	-30°C to 100°C
Application temperature	5°C to 35°C

MasterTile 401 Grey	
Colour	Grey
Plastic density	1900 kg/m ³
Recommended water addition is 4.0 to 4.5 L for 25 kg of material	25 kg of bag mixed with 4.5 L of water yields 15.5 L of mixed adhesive.
Tensile adhesion strength at room temperature @ 28 days	≥ 0.5 N/mm ²

MasterTile 401 White	
Colour	White
Plastic density	2000 kg/m ³
Recommended water addition is 3.75 to 4.35 L for 25 kg of material	25 kg of bag mixed with 4.35 L of water yields 14.6 L of mixed adhesive
Tensile adhesion strength at room temperature @ 28 days	≥ 0.5 N/mm ²

APPLICATION GUIDELINES

All surfaces must be clean, dimensionally stable, sound and free from all traces of oil, grease, mould release agents and curing compounds. It should be ensured that tiles and pavers are dry, and free of contaminants that could impair adhesion.

Concrete and screeds should be cured sufficiently that all shrinkage movement has occurred.

MIXING

Add **MasterTile 401** to cool, clean water and mechanically mix for 3 minutes to a uniform lump free consistency and allow to stand for 2 minutes before remixing for a further 2 minutes before use. Full bag volumes should ideally be mixed in a forced action mixer. Part bags should be mixed using a slow speed drill and mixing paddle.

PLACING / APPLICATION

Apply **MasterTile 401** to a uniform thickness of 4 mm to 40 mm or sufficient to cover the studs or keys on the tile back, on a working area of not more than 1 m².

Tiles / pavers should be dry and fixed by pressing into place with slight twisting motion, ensuring the tile back achieves full contact with the adhesive.

Solid bed fixing is recommended for all applications of **MasterTile 401** Thick Bed Mortar. This is achieved by applying a coat of adhesive to the back of the tiles to ensure full adhesive contact.

MasterTile® 401

Adjustments to tiles should only be made during the adhesives open time.

Remove excess adhesive from the face of the tile with a damp sponge or cloth before it sets.

Similarly, joints must be raked out in readiness for grouting.

Leave for a minimum of 24 hours before grouting.

Select the appropriate grout from the **MasterTile** range for joint size and in service use

Note:

DO NOT USE MasterTile 401 for vertical (wall) applications

It may be necessary to apply a suitable sealer **MasterSeal 550** (acrylic reinforced cementitious, flexible waterproof coating) to the back of moisture sensitive natural stone or agglomerate tiles.

Do not apply over an area greater than that which can be covered within the open time of the product.

MasterTile 401 should be buttered on the backs of tiles to ensure full adhesive contact.

WATCHPOINTS

Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.

Tiles should not be soaked in water prior to application.

Gypsum based substrates must be subjected to pre-treatment. Please consult Master Builders Solutions Technical Services for further advice.

Additional latex additive may be required for tiles and pavers with low porosity - please consult with Master Builders Solutions Technical Services.

Tiling and grouting should be carried out in accordance with relevant European Norms and British Standard Codes of Practice.

STORAGE AND SHELF LIFE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

The shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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