

MasterTile[®] 4

Cementitious tile adhesive with polymer additive for ceramic tiles

DESCRIPTION

MasterTile 4 is a cementitious powder formulated as a high performance fixing adhesive for a wide range of applications.

TYPICAL APPLICATIONS

Ceramic wall and floor tiles in internal applications. **MasterTile 4** may be employed with confidence in institutional or high traffic conditions. **MasterTile 4** is suitable for use in kitchens, showers and wet process areas. For external applications use **MasterTile 30**.

ADVANTAGES

- Water resistant.
- Precision made.
- Easy to use.
- Economical.
- For walls and floors
- High adhesive bond strength.

PACKAGING

MasterTile 4 is available in 20kg and 25kg bags.

COMPOSITION

MasterTile 4 is a blend of Portland cement, graded sand and organic polymer.

TYPICAL PROPERTIES*

Colours	Grey & White
Plastic density	1.80
Service temperature	-30°C to +100°C
Application temperature	+5°C to +35°C
Tensile adhesion strength	≥0.5N/mm ²

STANDARDS

BS 5980
BS EN 12004 C1 - Initial Tensile Adhesion and Tensile adhesion after water immersion
ANSI 118.1 - Tile Shear Strength after 24 hours.

YIELD

- 20kg bag mixed with 3.6-4.0 litres of water yields approximately 13.1-13.3 litres of mixed adhesive.
- 25kg bag mixed with 4.5-5.0 litres of water yields approximately 16.3-16.6 litres of mixed adhesive.

COVERAGE

Solid bed fixing	3mm-6mm depth
	5.4kg-10.8kg/m ²
Notched trowel	smooth surface 2kg/m ²

APPLICATION PROCEDURE

SURFACE PREPARATION

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

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

Prime very absorbent cement based substrates, plasterboards, cement boards, calcium silicate boards and aerated concrete with **MasterTile P 302**. For tile on tile applications, prime the existing tiles with **MasterTile P 303**.

MIXING INSTRUCTIONS

Add **MasterTile 4** to cool, clean water at the following rates:

Approx. 3.6-4.0 litres of water per 20kg bag
Approx. 4.5-5.0 litres of water per 25kg bag

Mix to a uniform lump free consistency and allow to stand for 5 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.

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APPLICATION INSTRUCTIONS

Apply **MasterTile 4** to a uniform thickness of 3 to 6mm or sufficient to cover the studs or keys on the tile back; on a working area of not more than 1m². Solid bed fixing is recommended for all horizontal applications and for ceramic tiles. If preferred, **MasterTile 4** can additionally be buttered on the backs of the tiles to ensure full adhesive contact. For all other vertical applications, the adhesive bed should be combed horizontally with a notched trowel to remove excess.

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

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

Ceramic tiles should never be butt jointed. Leave a minimum of 2mm around tiles.

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 for joint size and in service use from the **MasterTile** range.

WATCHPOINTS

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

MasterTile 4 should not be used on painted or metal surfaces, un-primed existing glazed tiled surfaces, or to bond glass mosaics.

Tiles should not be soaked in water prior to application.

Gypsum plaster and plaster boards and surfaces, must be primed with **MasterTile P 302** as per the datasheet.

Do not apply **MasterTile 4** greater than 8mm thickness on horizontal surfaces and 6mm on vertical surfaces.

CODES OF PRACTICE

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

SAFETY PRECAUTIONS

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.

STORAGE

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

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

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBCC representative.

MBCC reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from MBCC's 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, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBCC publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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