

# MasterTile<sup>®</sup> 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.

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

### 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 AND COLORS

**MasterTile 4** is supplied in 20kg and available in Grey and White.

### STANDARDS

BS 5980

EN 12004 C1T - Initial Tensile Adhesion Strength and Tensile Adhesion Strength after water immersion slip-resistant (T) cementitious (C) adhesive of class C1T.

ANSI A118.4 - Tile Shear Strength.

### TYPICAL PROPERTIES\*

Plastic density	1800 kg/m <sup>3</sup>
Service temperature	-30°C to +100°C
Application temperature	+5°C to +35°C
Tensile adhesion strength	≥0.5 N/mm <sup>2</sup>

### APPLICATION GUIDELINES

#### 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

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

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

Place approx. 4 litre gauging water in a clean mixing vessel. Mix to a uniform lump free consistency and allow to stand for 5 min. 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.

#### 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 1m<sup>2</sup>. 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.

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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.

## COVERAGE / YIELD

20kg bag mixed with 3.6-4.0 litres of water yields approximately 13.1-13.3 litres of mixed adhesive.

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

## 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.

## 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 Master Builders Solutions Technical Services Department.

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## 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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