

# MasterTile<sup>®</sup> 25

Cementitious, polymer modified general purpose tile adhesive

## MATERIAL DESCRIPTION

**MasterTile 25** is a grey cementitious powder containing performance enhancing polymers and other specialty additives. This versatile, easy-to-handle, cement-based adhesive is perfect for fixing ceramic tiles, quarry tiles and similar materials. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast and aerated concrete, and brickwork. For external wall application use **MasterTile 30**.

## RECOMMENDED USES

- New tiling in internal areas & floors in external
- Ceramics Tiles
- Vitrified tiles only for Flooring application
- Showers & wet processing areas
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements and roofs

## FEATURES AND BENEFITS

- **Water resistant** – suitable for wet areas
- **High adhesive bond strength** – suitable for larger tiles
- **Easy to use** – just add water on site
- **Non Slip** – Good for vertical application

## PROPERTIES

|   |                                      |
|---|--------------------------------------|
| Aspect  | : Free flowing grey powder           |
| Fresh wet density                                 | : 1.75 kg/litre                      |
| Water/powder ratio, by weight                     | : 0.180 - 0.240                      |
| Open time ( EN 1346)                              | : >0.5N/mm <sup>2</sup> (upto10min ) |
| Tensile Adhesion at room temperature ( EN 1348)   | : > 0.5 N/mm <sup>2</sup>            |
| Tensile Adhesion under water Immersion ( EN 1348) | : > 0.5 N/mm <sup>2</sup>            |
| Slip  | : ≤0.5mm(EN1308)                     |
| Foot traffic /Groutable                           | : 24 Hours at 25°C                   |
| Chloride content                                  | : < 0.2%                             |

\*All above properties have been tested at water powder ratio 0.210

## APPLICATION

### Surface preparation

The substrate must be solid, clean and load-bearing. Oil stains, bond-inhibiting surfaces and contaminations must be thoroughly removed. Irregularities on walls are to be leveled with **MasterEmaco N303** or polymer modified mortar using **MasterEmaco 131**. Very absorbent cement based substrate and aerated concrete are to be primer with **MasterSeal 511**. Allow primer to dry. Freshly installed cement screeds must not have residual moisture content above 5 %. Before applying **MasterTile 25** on Acrylic based cementitious waterproofing coatings, kindly consult technical services.

Concrete, screeds, renders, and block work should be cured sufficiently to allow for most of the shrinkage movements.

Tiles must be dry, and their surfaces free of contaminants that could impair adhesion.

Do not soak tiles in water before laying.

### Mixing

Place gauging water in a clean mixing vessel. Add powder and mix with a suitable mechanical stirrer until a plastic, lumps free consistency is achieved.

While part mixing, add **MasterTile 25** to clean water with a ratio of 3.6:1 by dry volume.

### Placing

Apply thin (3 to 6 mm thick) bond coat to the substrate with the straight edge of the trowel. Then comb mortar on to the fresh bond coat with the notched edge of the trowel working in the direction, if possible. Only apply as much mortar as can be covered with tiles within the open time. Check the open time by touching the adhesive bed with your fingertip. Apply mixed material in perpendicular direction with respect to grooves on the back of tile.

Position tiles in the adhesive bed and align with a slightly pushing motion, ensuring the tile back achieves full contact with the adhesive.

If required, **MasterTile 25** can additionally be buttered on the backs of the tiles to ensure full adhesive contact.

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

Solid bed fixing is recommended for all horizontal applications and vertical heavy duty applications including artificial stone cladding.

Adjustments to tiles should be made during the adhesive open time. Remove excess from tile face and rake out joint for subsequent grouting before the adhesive sets.

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Leave for a minimum of 24 hrs before grouting **Watch points**

- **MasterTile 25** should not be used unless modified with **MasterEmaco 141**, on painted, existing glazed tiled surfaces, or to bond non porous or high density ceramics such as glass mosaics.
- Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.
- Do not apply **MasterTile 25** greater than 12mm thickness on horizontal surfaces and 8mm on vertical surfaces.
- Do not apply at temperatures below +5°C and above 40°C
- In hot weather conditions, pre-condition MasterTile 25 at 21°C for at least 24 hours and use chilled mixing water to extend open wet time.
- The open time reduces with absorbent substrates
- Stiffened mortar must neither be diluted with water nor with fresh mortar

### ESTIMATING DATA

Each bag of 25 Kg is sufficient for 5~5.25 m<sup>2</sup> of the minimum 3mm application on a flat & smooth surface 25kg bag mixed with 5.25 L of water yields 17 litres of mixed adhesive

### PACKAGING

**MasterTile 25** is available in 25kg bags

### SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air- conditioned environment.

Shelf life is 6 months when stored as above.

### PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.

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#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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

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