

MasterTile® 25

Cementitious, Polymer Modified General Purpose Tile Adhesive

DESCRIPTION

MasterTile 25 is a grey cementitious powder modified with specialty polymers and additives to comply with Indian Standards. This versatile, easy-to-handle, cement-based adhesive is perfect for fixing ceramic tiles (mostly non-vitrified), and quarry tiles. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast and aerated concrete, and brickwork.

RECOMMENDED USES

- Suitable for ceramic tiles conforming to IS13712(2006) types IIa, IIb and III tiles.
- New tiling in internal areas & floors.
- Showers, bathrooms and domestic Kitchens.
- Laboratories, hospitals, canteens, etc.
- Tiling corridors.

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 powder |
| Fresh Wet Density | 1.75 kg/litre |
| Water/powder ratio, by wt. | 0.210 - 0.240 |
| Open Time (IS 15477:2004 – Appendix C) | 10 – 15 minutes |
| Adjustability (IS 15477:2004 – Appendix D) | 20 minutes |
| Tensile adhesion (IS 15477:2004 – Clause 4.4) | |
| Dry condition, 14 days | > 750 N |
| Wet conditions | > 450 N |
| Shear adhesion (IS 15477:2004 – Clause 4.5) | |
| Dry condition, 1 day | > 2.5 KN |
| Dry condition, 14 days | > 8 KN |
| Heat ageing conditions | > 4 KN |

| | |
|--------------------------|------------------|
| Wet conditions | > 4 KN |
| Foot traffic / Groutable | 24 Hours at 25°C |
| Chloride content | < 0.2% |

*All above properties have been tested at W/P ratio of 0.210 under controlled conditions as per IS standard.

STANDARDS

MasterTile 25 meets the requirements of **IS 15477:2004 Type I “Specifications for adhesives for use with ceramic tiles and mosaics.”**

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 primed 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. Required water for 25 Kg bag is 5.25 – 6 litre depending on consistency.

While part mixing, add **MasterTile 25** to clean water start with 4.75:1 ratio by weight. Adjust the water as per required consistency.

Placing

Apply thin (3 to 6 mm thick) bond coat to the

MasterTile[®] 25

substrate with the straight edge of the trowel, then comb the mortar with the notched edge of the trowel. 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.

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

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

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. Leave for a minimum of 24 hrs before grouting

Ceramic tiles should never be butt jointed. Leave a minimum of 2mm around tiles for 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.
- For external wall application use **MasterTile 30**.
- The open time reduces with absorbent

substrates

- Stiffened mortar must neither be diluted with water nor with fresh mortar

ESTIMATING DATA

| Required Notch Size* | Tiling Area |
|----------------------|-------------------------------------|
| 6mm | Approximately 3.2 kg/m ² |
| 8mm | Approximately 4.5 kg/m ² |
| 10mm | Approximately 5.2 kg/m ² |

* The consumption rates of dry powder are based on lab trials and might vary subject to variation of subfloor level and surface regularity. The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of mortar.

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 BASF Material Safety Data Sheet (MSDS) from our office or our website.

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