

# MasterTile® 25

## Cementitious, Polymer Modified Grey Colored 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 wall & 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
Water/powder ratio, by wt.	0.210 - 0.240
Open Time as per IS 15477:2019	Min 10 – 15 minutes
Adjustability as per IS 15477:2019	Min 20 minutes
Tensile adhesion as per IS 15477:2019	>0.5 Mpa
Shear adhesion as per IS 15477:2019	>1 Mpa
Foot traffic / Groutable	24 Hours at 25°C
Chloride content	< 0.2%
Slip	<0.5mm

\*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 **class Type I 'T' as specified in IS 15477:2019 "Adhesives for use with Ceramic, Mosaic and Stone Tiles - Specification"**

### APPLICATION

#### Surface preparation

The substrate must be solid, clean and loadbearing. 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 S 348**. Very absorbent cement-based substrate and aerated concrete are to be primed with **MasterSeal 399**. 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 20 Kg bag is 4.2 – 4.8 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 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.

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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 nonporous 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

Approximately 1.07 kg/m<sup>2</sup> for 1mm thickness

\* 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 20 Kg 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 12 months when stored as above.

## PRECAUTIONS

It is highly recommended to use necessary PPE (Gloves, mask etc.,) during installation of the product. In case of Incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

**MasterTile25/09/02/2023**

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