

MasterTile[®] 35

Highly Polymer Modified White Colored Cementitious Tile Adhesive

DESCRIPTION

MasterTile 35 is a highly polymer modified, cementitious tile adhesive with enhanced flexibility and bond strength, fully complying with Indian Standards. **MasterTile 35** provides strong adhesion to cement/sand screeds, in-situ, pre-cast, aerated concrete and brickwork. **MasterTile 35** is suitable for Ceramic Tiles, Glazed tiles, Semi-Vitrified tiles, Vitrified tiles, Terrazzo & Mosaics.

RECOMMENDED USES

MasterTile 35 is the adhesive of choice for demanding substrates and less-porous tiles (<3% and > 0.08%) and can be used with confidence in all wet process applications. Typical Applications are:

- Suitable for ceramic tiles, semi vitrified and vitrified tiles conforming to IS13712(2006) types Ib,IIa,IIb
- Tile on tile applications
- Swimming pools, Abattoirs, shower rooms
- Institutional kitchens, bathrooms
- Decorative cladding
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements, podiums and roofs

FEATURES AND BENEFITS

Waterproof – Immersion will not affect adhesion
Non-slip - Excellent Grab, good for vertical applications
Thin or Thick bed - Multi-purpose
Forms a watertight barrier – Suitable for immersion
High adhesive bond strength – Suitable for large tiles
Thixotropic – Slip Resistant & Excellent Grab

PROPERTIES

Aspect	Free Flowing White Powder
Water/Powder Ratio, by wt.	0.240 - 0.250
Adjustability as per IS 15477-2019	25 minutes
Shear adhesion as per IS 15477 – 2019	
Dry condition	> 1.25 Mpa
Heat ageing conditions:	> 1 Mpa
Wet conditions:	> 1 Mpa

Foot traffic / Groutable	24 Hours at 25 ⁰ C
Chloride content	< 0.2%
* All above properties have been tested at water powder ratio 0.210 and controlled condition as per EN 12004:2007 & IS 15477:2019	
Open Time EN-1346	20 min
Tensile adhesive Strength after dry storage (28 days)- EN 1348	≥ 0.5 N/mm ²
Tensile adhesive Strength after water Immersion -EN 1348	≥ 0.5 N/mm ²
Tensile adhesive Strength after heat ageing-EN 1348	≥ 0.5 N/mm ²
Slip-EN 1358	≤ 0.5 mm

STANDARDS

MasterTile 35 meets the requirements of **class C1T as specified in EN 12004-2007 “Adhesive for Tiles –Requirements Evaluation of Conformity, Classification & Design”**.

MasterTile 35 meets the requirements of **class Type II ‘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 load-bearing. Oil stains, bond-inhibiting surfaces and contaminations must be thoroughly removed. Irregularities on walls are to be leveled with **MasterEmaco N 303** 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 %.

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.

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Required water for 20 Kg bag is 4.8 – 5 litre depending on consistency.

While part mixing, add **MasterTile 35** 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.

MasterTile 35 is strongly recommended to additionally be buttered on the backs of the tiles to ensure full adhesive contact for large tiles (Area > 900 cm²)

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 adhesive from face of the tile with a damp sponge or cloth before it sets and rake out joint for subsequent grouting before the adhesive sets.

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

Leave for a minimum of 24 hrs before grouting

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

Watch points

- **MasterTile 35** should not be used unless modified with **MasterEmaco 141**, on painted surfaces.
- Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.
- Do not apply at temperatures below +5°C and above 40°C

- In hot weather conditions, pre-condition **MasterTile 35** at 21°C for at least 24 hours and use chilled mixing water to extend open wet time.
- Substrate must achieve 2.4% moisture content for safe laying of tiles.
- Stiffened mortar must neither be diluted with water nor with fresh mortar
- Do not apply **MasterTile 35** greater than 12 mm thickness on horizontal surfaces and 8 mm on vertical surfaces.
- For undulated Floors use **MasterTile 518** to prepare a levelled floor. Refer Technical Datasheet for details.

ESTIMATING DATA

Approximately 1 kg/m² 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 35 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.

TDS Ref: MasterTile35/04/09/2021

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