

MasterTile[®] 30

Highly Polymer Modified Cementitious Tile Adhesive

DESCRIPTION

MasterTile 30 is a highly polymer modified, cementitious tile adhesive with enhanced flexibility and bond strength, fully complying with Indian Standards. **MasterTile 30** provides strong adhesion to cement/sand screeds, in-situ, pre-cast, aerated concrete and brickwork. **MasterTile 30** is suitable for Ceramic Tiles, Glazed tiles, Semi-Vitrified tiles, Terrazzo & Mosaics.

RECOMMENDED USES

MasterTile 30 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 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

PROPERTIES

Aspect	Free Flowing Grey Powder
Water/Powder Ratio, by wt.	0.210 - 0.240
Fresh wet density	1.7 kg/litre
Open Time (IS 15477-2004, Appendix C)	10 – 15 minutes
Adjustability (IS 15477-2004, Appendix D)	25 minutes
Shear adhesion (IS 15477 – 2004 Clause 4.6)	
Dry condition, 1 day:	> 4 KN

Dry condition, 14 days:	> 10 KN
Heat ageing conditions:	> 5 KN
Wet conditions:	> 5 KN
Foot traffic / Groutable	24 Hours at 25°C
Chloride content	< 0.2%
* All above properties have been tested at water powder ratio 0.210 and controlled condition as per IS 15477:2004	
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 1308	≤ 0.5 mm

STANDARDS

MasterTile 30 meets the requirements of **IS 15477:2004 Type II “Specifications for adhesives for use with ceramic tiles and mosaics.”**

MasterTile 30 meets the requirements of **class C1T as specified in EN 12004-2007 “Adhesive for Tiles –Requirements Evaluation of Conformity, Classification & Design”.**

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**. Very absorbent cement based substrate and aerated concrete are to be primed with **MasterSeal 511 or 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.

MasterTile®30

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 30** 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 groves on the back of tile.

MasterTile 30 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 30** 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 30** 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 lying of tiles.
- Stiffened mortar must neither be diluted with water nor with fresh mortar
- Do not apply **MasterTile 30** 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

Required Notch Size*	Tiling Area
6mm	Approximately 2.8 kg/m ²
8mm	Approximately 4.1 kg/m ²
10mm	Approximately 5.0 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 30 is available in 25kg bags

STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this BASF Construction Chemicals 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.

® = registered trademark of BASF group in many countries

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF Construction Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.



We create chemistry

MasterTile[®]30

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.

TDS Ref: MasterTile30/05/0416

STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this BASF Construction Chemicals 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.

® = registered trademark of BASF group in many countries

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF Construction Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

BASF India Limited
Construction Chemicals Division
Plot.No.12,TTC Area
Thane Belapur Road,Turbhe
Navi Mumbai - 400705,India
Tel: +91 22 67127600, Fax: +91 22 67917358
E-mail: construction-india@basf.com , www.master-builders-solutions.basf.in

