

MasterTile® 30

High performance, polymer modified cementitious tile adhesive

MATERIAL DESCRIPTION

MasterTile 30 is a polymer enriched, cementitious tile adhesive for thin bed fixing of ceramics and vitrified tiles in interior or exterior situations, especially those exposed to permanently wet conditions.

This versatile, easy-to-handle, polymer modified adhesive is perfect for fixing materials such as marble, stone cladding and brick slips. The weight of which should not exceed 40kg/m² unless mechanical fixing is also used. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast and aerated concrete, and brickwork. It is also suitable for substrate such as glazed tiles, Vitrified tiles & terrazzo.

RECOMMENDED USES

MasterTile 30 is the adhesive of choice for swimming pools and may be used with confidence in all wet process applications.

- Tile on tile applications
- Ceramics, Vitrified tiles
- Swimming pools, Abattoirs, shower rooms
- Institutional kitchens, bathrooms
- Decorative cladding
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements, podiums and roofs
- Granite on horizontal & Limited vertical application

FEATURES AND BENEFITS

- **Waterproof** – immersion will not affect adhesion
- **Non-slip has excellent grab properties**- good for verticle 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
Fresh wet density	: 1.70 kg/litre
Water/powder ratio, by weight	: 0.180 - 0.220
Open time (EN 1346)	: > 0.5 N/mm ² (upto 10 min)

Tensile Adhesion at room temperature (EN 1348)	: > 0.5 N/mm ²
Tensile Adhesion under water Immersion (EN1348)	: > 0.5 N/mm ²
Heat Ageing (EN 1348)	: > 0.5 N/mm ²
Slip (EN 1308)	: < 0.5 mm
Chloride content	: < 0.2%
Foot traffic / Groutable	: 24 Hours at 25oC

*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 %.

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 lying.

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 30** to clean water with a ratio of 5:1 by weight or 3.7:1 by volume.

Placing

Apply thin (3 to 6 mm thick) bond coat to the substrate with the straight edge of the notched 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.

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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.

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

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

MasterTile 30 shall be mixed with MasterEmaco 131 or MasterEmaco 141 as specified with Master Builders Solutions representative. 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.

Leave for a minimum of 24 hrs before grouting

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 laying 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.

ESTIMATING DATA

25 kg bag mixed with 5.25 L of water yields 17.5 litres of mixed adhesive.

Each bag of 25 Kg is sufficient for 5 ~ 5.75 m² at an average thickness of 3mm application on a flat & smooth surface,

PACKAGING

MasterTile 30 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

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

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