

MASTERTILE™ 30

High performance, polymer modified cementitious tile adhesive for high risk conditions

Description

MASTERTILE 30 is a polymer enriched, cementitious tile adhesive for thin or thick bed fixing of ceramics 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, terrazzo and suitably prepared timber.

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, Glass mosaics, stones cladding
- Swimming pools, Abattoirs, shower rooms
- Institutional kitchens, bathrooms
- Decorative high risk cladding
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements, podiums and roofs

Advantages

- Waterproof – immersion will not affect adhesion
- Non-slip has excellent grab properties
- Precision made
- Thin or Thick bed
- Forms a watertight barrier
- High adhesive bond strength
- Long open time

Typical Properties

Aspect	: Free flow grey powder
Fresh wet density	: 1.60± 0.10 kg/litre
Water/powder ratio, by weight	: 0.2
Open time	: 30 Minutes at 25°C
Foot traffic / Groutable	: 24 Hours at 25°C
Temperature resistance	: - 20°C to 80 °C
Chloride content	: Nil to BS 5075

Standards Compliance:

- BS 5980 Type 1 Class AA
- BS 5385 Part 1
- ANSI A.118.1

Specification Clause

The high performance tile fixing adhesive shall be MASTERTILE 30, cementitious polymer modified

powder. The adhesive shall be free from chlorides and shall be capable to maintain adhesion under submerged conditions. The adhesive shall conform to ANSI A.118.1 and BS 5980 Type 1 class AA.

Direction for use

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 levelled with EMACO R303 or polymer modified mortar using RHEOMIX 131. Concrete floors are to be levelled with the self-smoothing screed leveller MASTERTOP 502. Very absorbent cement based substrate and aerated concrete are to be primer with RHEOMIX 115. 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.

Timber surfaces

Timber surfaces should be checked to ensure rigidity and soundness to accept the additional loading without deflection. Provision must be made to ensure adequate ventilation beneath tiled timber flooring. Tongue and groove, parquet and sprung floorings must first be strengthened by screwing 12mm thick exterior grade plywood at 200mm centres onto the existing timber base. Timber partition walls should be stiffened by screwing at 200mm centres onto studding, in both directions. Timber surfaces should always be primed with RHEOMIX 141/ cement slurry. RHEOMIX 141/ cement slurry should only be applied after MASTERTILE 30 has been mixed, to ensure adhesive is ready to apply immediately onto wet primer.

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 stirrer or mixer mounted on slow speed electric drill 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 3.3:1 by volume.

Allow to stand for 5 minutes before use.

Placing

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

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

If preferred, MASTERTILE 30 can additionally be buttered on the backs of the tiles to ensure full adhesive contact.

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.

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

Use MASTERTILE 15 to grout the tile joints. Use SONOLAC for sealing corner joints (floor/wall, wall/wall, and wall/ceiling) and MASTERFLEX 472 for sealing expansion joints.

Watch points

- MASTERTILE 30 should not be used unless modified with RHEOMIX 141, on painted or metal surfaces.
- Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.
- Gypsum plaster board and surfaces must be subjected to pre-treatment. Please consult BASF Representative for further advice.
- 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.
- Stiffened mortar must neither be diluted with water nor with fresh mortar

Coverage

25 kg bag mixed with 5 L of water yields 16.5 litres of mixed adhesive.

Each bag of 25 Kg is sufficient for 5 ~ 6 m² at an average thickness of 3mm application on a flat & smooth surface

Packaging

MASTERTILE 30 is available in 5kg and 25kg bags.

Storage and 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.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

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