

MASTERTILE™ 25

Cementitious, polymer modified general purpose tile adhesive

Description

MASTERTILE 25 is a grey cementitious powder containing performance enhancing polymers and other speciality additives. This versatile, easy-to-handle, cement-based adhesive is perfect for fixing ceramic & vitrified wall and floor tiles, quarry tiles and similar materials. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast and aerated concrete, and brickwork. It is suitable for use where the tiling is fully immersed in water. For external wall application use MASTERTILE 30

Uses

- Tile on tile applications
- New tiling in internal areas & floors in external
- Ceramics, Marble and decorative cladding
- Kitchens, showers & wet processing areas
- Laboratories, hospitals, canteens, etc
- Tiling swimming pools and fountains
- Tiling corridors, pavements, podiums and roofs

Advantages

- Water resistant
- Precision made
- High adhesive bond strength
- Easy to use
- Long open time

Typical Properties

Aspect	: Free flow grey powder
Fresh wet density	: 2.1 kg/litre
Water/powder ratio, by weight	: 0.18
Open time	: 30 Minutes at 25°C
Foot traffic /Groutable	: 24 Hours at 25°C
Temperature resistance	: - 20°C to 80 °C
Chloride ion content	: < 0.2%

Standards Compliance:

- BS 5980 Type 1

Specification Clause:

The tile fixing adhesive shall be MASTERTILE 25, cementitious polymer modified powder. The adhesive shall be free from chlorides and shall be capable to maintain adhesion under submerged conditions.

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 %.

For tile-on-tile applications, the existing tile surface needs to be cleaned and washed with clean water making it free from wax, oil, grease, polish, paint and any other stains.

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 stirrer or mixer mounted on slow speed electric drill until a plastic, lumps free consistency is achieved.

While part mixing, add MASTERTILE 25 to clean water with a ratio of 2.5:1 by dry 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 required, MASTERTILE 25 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 from tile face 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 25 should not be used unless modified with RHEOMIX 141, on painted or metal surfaces, existing glazed tiled surfaces, or to bond non porous 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.
- Gypsum plaster board and surfaces must be subjected to pre-treatment. Please consult BASF Representative for further advice.
- Do not apply MASTERTILE 25 greater than 8mm thickness on horizontal surfaces and 6mm on vertical surfaces.
- 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.
- The open time reduces with absorbent substrates
- Stiffened mortar must neither be diluted with water nor with fresh mortar

Coverage

25kg bag mixed with 4.5 L of water yields 14 litres of mixed adhesive.

Each bag of 25 Kg is sufficient for 4.5 ~ 5 m² of the minimum 3mm application on a flat & smooth surface

Packaging

MASTERTILE 25 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

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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