

MasterTile[®] 30

Cementitious, polymer modified tile adhesive for non-vitrified, vitrified, glass mosaic, porcelain and non-moisture sensitive natural stones tiles

MATERIAL DESCRIPTION

MasterTile 30 is a polymer-modified cement-based tile adhesive for thin or thick bed fixing of ceramic tiles in interior or exterior situations, especially those exposed to permanently wet conditions.

Suitable substrates are concrete, sand cement screeds and renders, plaster boards, gypsum fibre boards and suitably prepared timber.

TYPICAL APPLICATION

MasterTile 30 is the adhesive of choice for swimming pools and may be used with confidence in all wet process applications including: abattoirs, shower rooms, institutional kitchens, bathrooms, and decorative, high risk cladding. **MasterTile 30** may be used to tile directly onto glazed tile surfaces and is especially recommended for non-porous or high density and glass mosaics where it may be used to both fix and grout.

Used in conjunction with **MasterTile RSG 705**, the system is suitable for use where chemical resistance or a high standard of hygienic quality is essential.

For extreme conditions such as vibration or temperature extremes etc. **MasterTile 30** can be mixed with **MasterTile A 200** instead of water.

MasterTile 30 mixed with **MasterTile A 200** is suitable for fixing certain types of natural stone. Please consult Master Builders Solutions Technical Service Department for advice.

MasterTile 30 is a blend of Portland cement, and graded sand, reinforced with a high organic polymer content.

ADVANTAGES

- Waterproof: immersion will not affect adhesion
- Non-slip
- Ready for use - just add water
- Thin or thick bed
- High adhesive bond strength
- Exceeds British Standard requirements Extended open / wet time

PACKAGING

MasterTile 30 is available in 20 kg bags.

STANDARD

ANSI A 118.1

ANSI A 118.4 (**MasterTile 30** mixed with **MasterTile A 200**)

TYPICAL PROPERTIES

Colours	Off white and Grey
Plastic density	1800 kg/m ³
Yield	A 20 kg bag mixed with 3.6-4.0 L of water yields approximately 13.1-13.3 L of mixed adhesive
Curing times** (on slightly absorbent substrates)	
- Walked on after	approx. 24 h
- groutable after	approx. 24 h
- able to bear weight after	approx. 7 days

At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given

APPLICATION

Surfaces to be tiled, should be sound, dimensionally stable, clean and free from loose laitance, paint, oil, grease, mould release agent and residual curing compound. It should be ensured that tiles are dry, and free of contaminants that could impair adhesion.

SURFACE PREPERATION

Porous concrete, mortars, renders, plaster boards and gypsum fibre boards should be primed with **MasterTile P 302** to reduce suction.

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 12 mm thick exterior grade plywood at 200mm centres onto the existing timber base.

Timber partition walls should be stiffened by screwing at 200 mm centres onto studding, in both directions.

Timber surfaces should always be primed with **MasterCast 141 / CEMENT SLURRY**. **MasterCast 141 / CEMENT SLURRY** should only be applied after **MasterTile 30** has been mixed, to ensure adhesive is ready to apply immediately onto wet primer

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MIXING

Add **MasterTile 30** to cool, clean water at the following rates:

Place approx. 4 L gauging water in a clean mixing vessel. Mix to a uniform lump free consistency and allow to stand for 5 min. before use. Full bag volumes should be mixed in a forced action mixer. Part bags should preferably be mixed using a slow speed drill and mixing paddle.

APPLICATION INSTRUCTION

Apply **MasterTile 30** to a uniform thickness of 3 mm or sufficient to cover the studs or keys on the tile back; (on a working area of not more than 1 m²). Solid bed fixing is recommended for wet conditions and for ceramic and marble flooring tiles, and vertical heavy-duty applications including decorative stone cladding. If preferred, the **MasterTile 30** can additionally be buttered on the backs of the tiles to ensure full adhesive contact. For all other vertical application, the adhesive bed should be combed horizontally with a notched trowel to remove excess.

Tiles should be dry and fixed by pressing into place with slight twisting motion, ensuring the tile back achieves full contact with the adhesive.

Ceramic tiles should never be butt joined. Leave a minimum of 2 mm around tiles. Adjustments to tiles should only be made during the adhesives open wet time.

Remove excess adhesive from the face of the tile with a damp sponge or cloth before it sets. Similarly, joints must be raked out in readiness for grouting. Leave for a minimum of 24 hours before grouting. Select the appropriate grout for joint size and in service use from the **MasterTile** range of products.

COVERAGE

Solid bed fixing: 3 - 6 mm depth
 5.4 kg - 10.8 kg/m²

Notched trowel application on to a smooth surface (trowel @ 45°)

10 mm Notch	6.3 kg/m ² (3.17 m ² /bag)
8 mm Notch	5.4 kg/m ² (3.7 m ² /bag)
6 mm Notch	3.6 kg/m ² (5.55 m ² /bag)
4 mm Notch	2.7 kg/m ² (7.4 m ² /bag)

Above figures are to be used as a guide only and do NOT take into account surface undulation or material wastage.

WATCH POINTS

Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.

MasterTile 30 should not be used on painted or metal surfaces. The use of chilled mixing water will extend open wet time in high ambient temperature. Gypsum plaster boards and surfaces, must be subjected to pre-treatment. Please consult Master Builders Solutions Technical Services Department for advice.

STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. The shelf life is 12 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 consult MBS's Technical Services Department

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes To eyes and skin immediately. If accidentally ingested, seek immediate medical attention..

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBS representative.

MBS reserves the right to have the true cause of any difficulty determined by accepted test methods.
 * Properties listed are based on laboratory controlled tests.

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QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions are manufactured under a management system independently certified to conform to the requirements of

the quality standards ISO 9001, environmental and occupational health and safety standards.

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DISCLAIMER

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