

MasterTile® ECO

Cementitious tile adhesive with polymer additives for ceramic tiles

DESCRIPTION

MasterTile ECO is an economic cementitious powder formulated as a general purpose adhesive for a wide range of applications.

TYPICAL APPLICATIONS

MasterTile ECO can be used with vitrified and semi-vitrified, standard sized, ceramic tiles (Class 11a, 11b and 111, EN 14411 >3% water absorption) for internal wall and floor applications especially in the residential and commercial sectors. For detailed advice on the best adhesives for porcelain, glass mosaic, natural stones, or large format tiles in critical situations, contact your local Master Builders Solutions Technical Services Department.

MasterTile ECO is a blend of Portland cement, graded sand and organic polymer.

ADVANTAGES

- Water resistant
- Easy to use
- Economical
- For walls and floors
- Good adhesive bond strength

PACKAGING AND COLORS

MasterTile ECO is available in Grey and White colors and supplied in 20 kg bags.

STANDARDS

BS 5980

BS EN 12004 C1 - Initial tensile adhesion and tensile adhesion after water immersion

TYPICAL PROPERTIES*

Plastic density	1.70
Service temperature	-30°C to +100°C
Application temperature	+5°C to +35°C
Tensile adhesion strength	≥0.5 N/mm ²

APPLICATION GUIDELINES

SURFACE PREPARATION

All surfaces must be clean, dimensionally stable, sound and free from all traces of oil, grease, mould release agent and curing compound. It should be ensured that tiles are dry, and free of contaminants that could impair adhesion.

Concrete, screeds, renders, and blockwork should be cured sufficiently that all shrinkage movement has occurred.

MIXING

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

Mix to a uniform lump free consistency and allow to stand for 5 minutes before use. Full bag volumes should ideally be mixed in a forced action mixer. Part bags should be mixed using a slow speed drill and mixing paddle.

PLACING / APPLICATION

Apply **MasterTile ECO** to a uniform thickness of 3 to 6 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 all horizontal applications and for ceramic tiles. If preferred, **MasterTile ECO** can additionally be buttered on the backs of the tiles to ensure full adhesive contact. For all other vertical applications, 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.

Note: Do not apply over an area greater than that which can be covered within the open time of the product.

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

Adjustments to tiles should only be made during the adhesives open time.

MasterTile[®] ECO

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.

COVERAGE / YIELD

20 kg bag mixed with 3.6-4.0 L of water yields approximately 13.8-14.1 L of mixed adhesive.

Solid bed fixing	3 mm-6 mm depth
	5.1 kg-10.2 kg/m ²
Notched trowel	smooth surface 2 kg/m ²

WATCHPOINTS

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

MasterTile ECO should not be used on painted or metal surfaces, un-primed existing glazed tiled surfaces, or to bond glass mosaics.

For advice on fixing porcelain, fully vitrified tiles, glass mosaic or other highly impervious tiles (i.e. Class 1 EN 14411 water absorption <3%) natural stone or large format tiles please contact your Master Builders Solutions Technical Services Department.

Tiles should not be soaked in water prior to application.

Remove any dust or residue using a damp cloth or sponge only.

Do not apply **MasterTile ECO** greater than 6 mm thickness on horizontal surfaces and vertical surfaces.

Codes of practice

Tiling and grouting should be carried out in accordance with relevant British Standard Codes of Practice.

STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions 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.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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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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