

MasterTile[®] 750

Reaction resin tile adhesive on steel and polyester

DESCRIPTION

MasterTile 750 is a solvent-free, two component polyurethane tile adhesive.

TYPICAL APPLICATIONS

- For indoor and outdoor use.
- For walls and floors.
- For laying ceramic tiles, porcelain mosaic, brick tiles, clinker bricks, fully vitrified tiles and non-moisture sensitive natural stone tiles.
- In swimming pools, pool surrounds, wet rooms and cold storage depots.
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, precast concrete elements, aerated concrete, heated screeds, plasterboards, gypsum fiber boards, dry screeds, insulation boards, plaster slabs and plaster.
- For renovating old houses, prefabricated houses, for interior finishing and kitchen worktops.
- On impermeable, smooth and vibrating substrates, e.g. old ceramic, natural stone, aluminium, steel, PVC covering and polyester substrate.
- For bonding thick layers of non-structural, dry building elements.
- For bonding non-structural, dry steel elements.
- For fixing glue injectors.
- For fast-track tiling work such as renovation of natural stones and ceramic coverings in residential buildings and commercial buildings, prefabricated houses, with only short interruptions in operation.
- For tile-on-tile application please contact Master Builders Solutions representative for further information.

ADVANTAGES

- Fast and shrinkage-free curing, groutable after approx. 3 hours, able to bear weight after approx. 12 hours.
- Suitable for laying natural stones.
- Especially suitable for fast-track tiling, e. g. for refurbishment work with only short interruptions in operation.
- Flexible, adaptable to variations in temperature and expansions in the substrate.
- Reliable bond to impermeable, smooth and vibrating substrates.
- Impermeable to water and, to a sufficient degree, to water vapor, prevents absorbing moisture and thus wood or particle boards from swelling.

PACKAGING AND COLORS

MasterTile 750 is supplied in 5 kg and available in White.

STANDARDS

Class R2T to EN 12004-1

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TYPICAL PROPERTIES

Mixed density @ 25°C	1.550 -1.610 kg/L
Reaction to fire	Class E
Initial shear adhesion strength	≥ 2.0 N/mm ²
Shear adhesion strength after thermal shock	≥ 2.0 N/mm ²
Shear adhesion strength after water immersion	≥ 2.0 N/mm ²

APPLICATION

Consumption and coverage* Required notch size		
- 4 mm	approx. 1.8 kg/m ²	2.7 m ² /5 kg
- 6 mm	approx. 2.3 kg/m ²	2.1 m ² /5 kg
- 8 mm	approx. 3.0 kg/m ²	1.6 m ² /5 kg
- 10 mm	approx. 4.2 kg/m ²	1.1 m ² /5 kg
Solid bed	3.1 m ² @ 1 mm thickness 1.55 m ² @ 2 mm thickness	
Substrate temperature	min. 10°C and max. 40°C	
Thickness of adhesive bed	1 to 5 mm	
Working temperature	5°C to 40°C	
Pot life	approx. 45 min @ 23°C	
Slake time	approx. 3 min @ 23°C	
Working time**	approx. 30 - 40 min @ 30°C	
Open time**	approx. 30 - 40 min @ 30°C	
Curing times** (on slightly absorbent substrates)		
- walkable after	approx. 3 h	
- groutable after	approx. 3 h	
- able to bear weight after	approx. 12 h	
Temperature resistance	-30°C to 80°C	

* The consumption rates are based on lab trials and might vary subject to variation of subfloor level and surface regularity.

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

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PREPARATION OF SUBSTRATE

- The substrate must be clean and dry. Dirt, grease, oil, wax, old coatings, floor cleansing agents, gypsum-based patching compounds etc. must be completely removed.
- Remove rust and oil from steel plates by sandblasting. Remove grease from aluminium (e.g. Xylene / MEK / Acetone solvent). The grease film must be completely removed. Roughen polyester and remove from dust. Clean PVC floorings and remove wax (e.g. Xylene / MEK / Acetone solvent). The moisture level of particle boards must not exceed 10%.

APPLICATION GUIDELINES

Wear protective gloves and eye protection where there is a risk from splashing!

1. Add hardener component to base component and thoroughly mix until a uniform color is produced using a mechanical mixer attached to an electric drill. Transfer material to another clean mixing bucket and re-mix.
2. After mixing, spread small portions of **MasterTile 750** onto the substrate to be tiled to allow the reaction heat to dissipate.
3. Apply a thin scratch coat using the straight edge of the trowel.
4. Using the notched edge of the trowel, comb as much **MasterTile 750** onto the scratch coat as can be covered with ceramic tiles within 60 minutes.
5. Place tiles and adjust to correct position. Heavy vitrified tiles and/or large format tiles should be wedged if necessary.
6. Before tiling on moisture-sensitive substrates, apply a layer of **MasterTile 750** directly onto the substrate to produce a water-impermeable layer. The layer must be at least 1.5 mm thick and pore free. Seal pipe culverts, corner joints and floor/wall junctions with appropriate type of **MasterTile WP Tape**. Use **MasterTile 750** to fix **MasterTile WP Tape**.

7. Large-size vitrified tiles not subject to mechanical loads can be laid by applying dots or stripes to the reverse side of the tiles. When applying the dot and dab method, put palm-sized dots at the corners and in the center of the tiles and spread the adhesive to a uniform thickness using the notched edge of the trowel. The joints must stay free from adhesive. Press tiles into the substrate, adjust them to correct position with a twist and slide motion using battens.
8. In case of lath construction and on completely level substrates, apply stripes of **MasterTile 750**, approx. 10 cm wide, to the lathwork and/or reverse of the tile and spread to a uniform thickness using the notched edge of the trowel.

Elastic joints

- Seal expansion joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) with the elastic joint sealant **MasterSeal Range**.

STORAGE AND SHELF LIFE

Store in original container at 23°C.

Shelf life is 12 months when products is stored in shaded areas in unopened containers.

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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 the eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

Reseal containers after use. For further information, refer to the material safety data sheet.

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

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NOTE

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