

MasterTile[®] 545

Premium quality, coloured, flexible, water and abrasion resistant joint grout, for tile and natural stone

DESCRIPTION

MasterTile 545 is a fine coloured highly polymer modified powder which, when mixed with water, gives a smooth, easily applied creamy paste for clean grouting of ceramic tiles and natural stone. **MasterTile 545** is formulated using the latest grout technology including hydrophobic, easy clean, and anti-bacterial properties.

TYPICAL APPLICATIONS

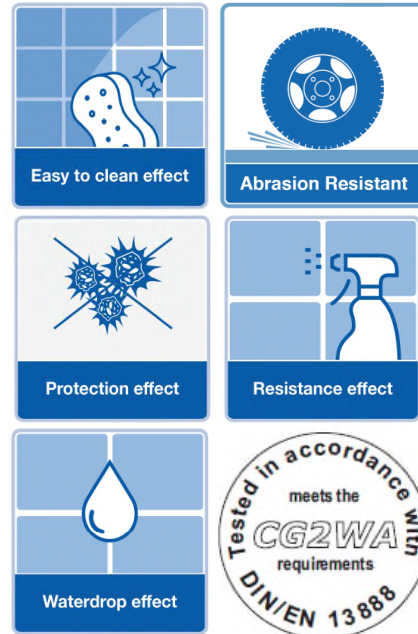
- For indoor and outdoor use
- For walls and floors
- For joint widths from 1-10mm
- For all ceramic tiles, glass mosaic, and glass tiles
- For non-moisture-sensitive natural stone tiles
- In residential areas, bathrooms, showers, on balconies, terraces, facades, in public and commercial areas subject to frequent or permanent wetness
- On heated screed, dry screed, precast concrete elements, plasterboards, gypsum blocks, particle boards, wooden floorboards and areas subject to extreme variations in temperature

ADVANTAGES

- Designed to repel dirt and clean easily
- Very easy to apply with 40 mins working time
- Provides improved protection against mould and bacterial growth
- Resilient to common cleaning, chemicals
- Hydrophobic, repelling water
- Superior finish and large pallet of brilliant colours

PACKAGING

MasterTile 545 is available in 18kg bags.



STANDARDS

Conforms to and exceeds the requirements for CG2 WA to EN 13888:2009

- CG2 – Cementitious grout with improved characteristics
- W – Reduced water absorption
- A – Increased abrasion resistance

TYPICAL PROPERTIES*

Mixed density @25°C	1875 kg/m ³
Working time @25°C	Approx. 40 mins
Compressive strength @ 28 days BS EN 12808-3	>20 N/mm ²
Flexural strength @ 28 days BS EN 12808-3	5 N/mm ²

(18kg bag mixed with 4.32 litres of water)

APPLICATION GUIDELINES

Fill gauging water in a clean bucket. Add **MasterTile 545** grout powder and mix to a creamy, lump-free consistency using a suitable paddle attached to an electric drill.

Leave to stand for approximately 3 minutes prior to use.

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Work the grout into the joints using a rubber grout float, sponge or squeegee and allow to set.

Grout one more time if necessary, to produce a flush finish.

After the grout has set (finger test) clean tiles with a slightly damp sponge or sponge float.

Allow grout to dry before removing the remaining film on the tiles with a dry cloth.

PREPARATION OF SUBSTRATE

Immediately after setting the tiles, rake the joints clean to a uniform depth corresponding to the thickness of the tile. Allow 24 hours for the adhesive to set before grouting.

WATER ADDITION

Approx. 4.32 litres of water per 18kg bag

COVERAGE / YIELD

18kg bag mixed with 4.32 litres of water yields approximately 11.9 litres

WATCHPOINTS

- Consult Master Builders Solutions Technical Services for hot weather applications
- Higher temperatures reduce, lower temperatures increase the processing time. Cover newly grouted areas outdoors to protect against direct sunlight and strong draught
- Underfloor heating must be switched off during grouting and curing (min. 24 hours)
- A white film on the ceramic tiles which might remain visible after hardening can be removed after 2 to 3 days with a cement stain remover. Pre-wet joints and tiles thoroughly and wash with lots of water after cleaning.
- Joints might be affected when often and intensively being exposed to acidic cleaning agents and/or long action time of cement attacking media. The joints should be thoroughly pre-wet before cleaning and washed off with lots of water after cleaning.
- The grout film on non-slip tiles or floor coverings with a rough surface must be thoroughly removed while still fresh (test grouting and/or test cleaning beforehand).

- In case of polished fully vitrified tiles, colour pigments can solidify in the micro-pores which might be found at the surface of the tiles. We therefore advise against an intense colour contracts between the tile and joint. Grout a small, discreet area first if you are unsure.
- We recommend using a non-woven cloth for washing sharp-edged tiles.
- Cleaning might require a higher effort when using the colour black.
- Prevent **MasterTile 545** from spreading to perimeter joints and adjoining areas by taking appropriate measures such as placing temporary barrier strips before grouting. Remove the strips before applying the elastic sealant. Seal joints between tiles, fitted elements and pipe culverts as well as corner joints and connection joints with the relevant **MasterSeal** elastic sealant.
- We recommend to use the same batch number for the same project.
- Never add water or wet grout and/or powder to reconstitute a grout mix which has already begun to set.

STORAGE AND SHELF LIFE

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

Shelf life is 12 months when stored as above, in original, unopened bags.

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 (which may also be tainted with vapour until product is fully cured). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use.

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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.

® = Registered trademark of the MBCC Group in many countries.

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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.