

# MasterTile® WP 680

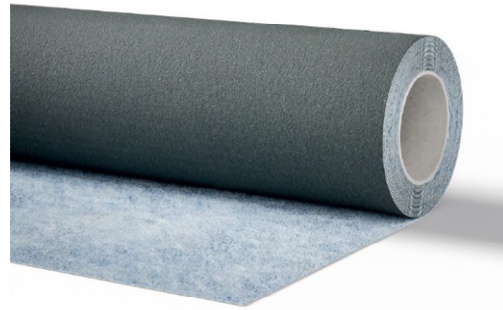
**3-ply decoupling and waterproofing membrane for installation under ceramic, porcelain and natural stone tiles**

## AREAS OF APPLICATIONS

- Ideal for fast track waterproofing and decoupling of substrates in one step for bathrooms, showers and balconies.
- For floors (and walls of suitable substrates) in all types of projects including residential, commercial, public, health, sport and education buildings.
- For waterproofing and decoupling under all common types of tiles.
- For all substrates able to bear weight (even with existing cracks) and a mixture of substrate types such as concrete floors, cement screeds, anhydrite screeds, mastic asphalt screeds, old parquet flooring with good adhesion, render, gauged render and plaster.

## ADVANTAGES

- Ideal one-step waterproofing and decoupling for fast track installations, to catch up on new-build project schedules or getting bathrooms and showers back into use promptly for hotel and residential refurbishments
- Low construction height, only 0.9mm thick and therefore ideal for refurbishments
- Movement absorption: the decoupling membrane absorbs movements/ stresses from the substrate therefore reducing movement from being transferred to the tile layer
- Easy to apply, cut and install
- Short installation time- no curing of waterproofing- can be installed quickly
- Impact sound reduction- when correctly installed, decoupling membranes can reduce the impact sound. Underlying areas are thus less affected by noise
- Load transfer- due to its particular construction, the decoupling membrane transfers loads, which impact the tile layer, directly onto the substrate (example car traffic loads in car showrooms)



Reliable decoupling (isolation) and waterproofing of porcelain, ceramic and natural stone tiles with **MasterTile WP 680** membrane

## PACKAGING

**MasterTile WP 680** is supplied in:

Roll size	1 x 30 meters
Thickness	approx. 0.9mm

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## TECHNICAL DATA

Material base	Two polypropylene non-woven layers with one inner layer of polyethylene waterproofing membrane
Colour	Black and Blue
Fire Classification to DIN 4102-1	B2
Breaking load longitudinal DIN EN ISO 527-3	400 N / 15 mm $\geq$ 300 N / 50 mm
Breaking load lateral DIN EN ISO 527-3	430 N / 50 mm $\geq$ 330 N / 50 mm
Extension break longitudinal DIN EN ISO 527-3	90% $\geq$ 60%
Extension break lateral DIN EN ISO 527-3	100% $\geq$ 70%
Resistance to tearing longitudinal DIN EN 12310-2	160 N / 50 mm $\geq$ 100 N / 50 mm
Resistance to tearing lateral DIN EN 12310-2	150 N / 50 mm $\geq$ 100 N / 50 mm
Resistance to water pressure DIN EN 1928 (Verfahren)	3,0 bar $\geq$ 1,5 bar
UV- Resistance, min. DIN EN ISO 4892-3	> 450 h
Moisture vapour resistance air equivalent (sd) ETAG 022	$\geq$ 85 m (93 % r.h. to 50 % r.h.)
Bonding strength DIN EN 1348	$\geq$ 0,2 N / mm <sup>2</sup> *
Burst pressure, max. Internal	> 3,0 bar

## PREPARATION OF SUBSTRATE

Suitable substrates are: cement screeds, asphalt screeds, magnesite screeds (petrified wood), anhydrite screeds, even concrete floors, old coverings made of natural stone, cast stone and ceramic tiles, firmly bonding parquet flooring as well as substrates able to bear weight such as rigidly fixed raised access flooring, render, gauged render and plaster. Continuous, moving cracks in floors must be closed and injected with **MasterInject 1315** by transmitting force; no special requirement for hairline cracks.

### Old floorings

When old floorings (e.g. carpets, PVC and linoleum) should be replaced by ceramic or natural stone, the old flooring must be removed and loose adhesive residues chipped off. The cleaned surface (including remaining adhesive residues; water-soluble adhesives, e.g. sulphite liquor adhesives, must be completely removed!)

must be primed over its entire area with **MasterTile P 302**. Allow primer to dry. Apply **MasterTop 2200** epoxy repair filler to cavities, spalled areas or holes and trowel flush with the surface. Remaining irregularities can be levelled with **MasterTop 522** if necessary. The floor must be level and flat before laying **MasterTile WP 680**.

### Old coverings made of ceramic, cast stone or natural stone, parquet flooring:

The existing covering must provide a reliable bond for the installation of **MasterTile WP 680** on old ceramic or natural stone coverings on walls and floors as well as old parquet floorings. Level floor surfaces with **MasterTop 522**, if necessary.

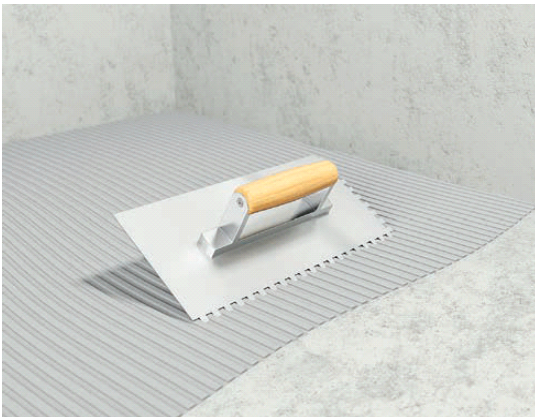
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## **Construction measures in new buildings**

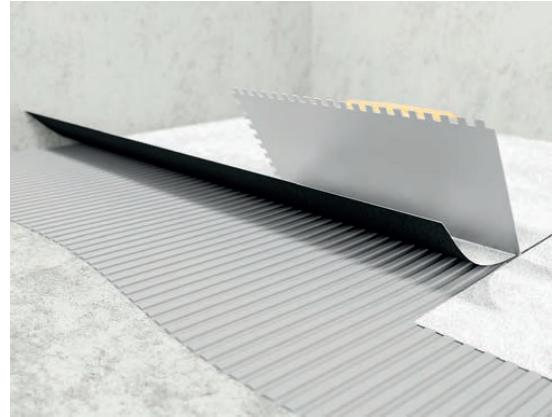
Screeds and plaster/render surfaces must be even. Prime substrates with **MasterTile P 302**, allow primer to dry. Smooth rough surfaces with **MasterTop 522**. Level large, irregular surfaces with **MasterTop 522**. Level irregular wall surfaces with **MasterProtect FL 100**.

### APPLICATION GUIDELINES

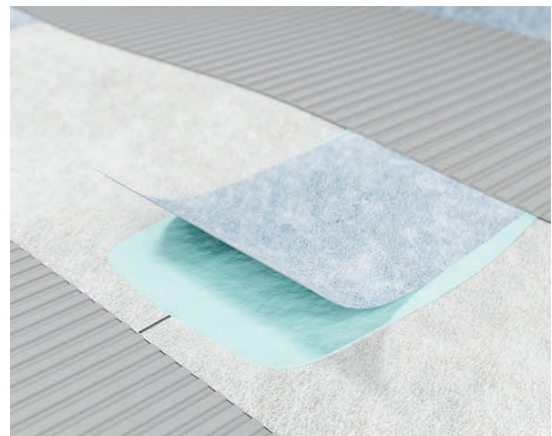
1. Lay out **MasterTile WP 680** and cut to size using a craft knife or scissors.
2. Using a trowel with 4mm or 6mm notches, apply **MasterTile 30**, **MasterTile 434**, **MasterTile FLX 23**, **MasterTile FLX 24**, **MasterTile NTS 26 Rapid** or **MasterTile FLX 441** onto the prepared substrate in accordance with the codes of practice.
3. Lay out **MasterTile WP 680** edge to edge within the open time of the adhesive and press on tight.
4. The top covering can be laid when the adhesive has dried sufficiently (see Technical Data sheet of specific adhesive used).



Apply adhesive to substrate according to adhesive method statement.



**MasterTile WP 680** is laid in to the newly-applied adhesive within the open time and pushed into the adhesive with a suitable trowel (rubber or wood preferred).



If the floor is to be fully sealed, the joints should be adhered with **MasterTile WP 668** or covered with sealing tape bonded with **MasterTile WP 668**.

# MasterTile® WP 680

## Laying porcelain, ceramic and natural stone tiles on MasterTile WP 680

Suitable **MasterTile** bedding mortars which can be applied in line with the codes of practice and suitability with the substrate to which it needs to bond:

- MasterTile 30**
- MasterTile 30 plus MasterTile A 200**
- MasterTile 434 / MasterTile FLX 23**
- MasterTile FLX 24**
- MasterTile NTS 26 Rapid**
- MasterTile FLX 441**

\*Other adhesives may also be suitable- please check with Master Builders Solutions Technical Services before proceeding.

- Suitable grouts:
- MasterTile 530**
  - MasterTile 545**
  - MasterTile RSG 705**
  - MasterTile 707**

### PLEASE NOTE

- Close expansion joints and connection joints in porcelain and ceramic tiles with the elastic joint sealant **MasterSeal 121** or **MasterSeal 122**, in natural stone tiles with **MasterSeal 123NS**.
- See the relevant technical data sheets for further application instructions. Please follow the respective technical data sheets when working with **MasterTile** products.
- Store **MasterTile WP 680** in dry conditions.
- Lay tiles in accordance with BS EN 5385 (Parts 1 to 5).
- **MasterTile WP 680** is unsuitable to bridge expansion joints; these must be adopted in the top covering congruent with the joints in the substrate.

- **MasterTile WP 680** cut-offs can be disposed of as commercial waste.
- **MasterTile WP 680** is not suitable for application over cracks where there is a vertical (height) difference between both sides of the crack.

### 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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