

Specification: The Tile backer board on a concrete floor

Product Ref: Marmox The Tilebacker

Product Use: Intermediate substrate to ceramic and stone tiling on a concrete floor.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.
01634 835290; Email: sales@marmox.co.uk; <http://www.marmox.co.uk/>.

Description: Extruded polystyrene board covered with one side of fibreglass mesh encased in a c.0.75mm layer of polymer modified concrete which permanently bonds the mesh to the polystyrene.

Dimensions: Board Width = 600mm, Board Length = 1250mm, Thickness = 6mm & 10mm

Specification: Marmox The Tilebacker is fixed to the concrete floor (*XPS side down*) on a continuous bed of flexible cement-based tile adhesive. * Boards are configured in a brick-bond pattern where possible. A 5mm gap is left between the boards and the wall which is filled with Marmox Multibond. Prior to tiling, cover the board joints with scrim tape and ensure that any expansion gaps are filled with Marmox Multibond.

If a completely waterproof layer is required

All board joints must be covered with Marmox self-adhesive waterproof tape instead of the reinforcing (scrim) tape.

Notes: * Unless the concrete of the floor is of very poor quality unlikely to provide a good key for the adhesive, it is not necessary to also use mechanical fixings. Screws and washers are counter-productive because: a) they pierce the waterproof barrier and b) they reduce the flexibility of the foam core which is there to absorb lateral movement in the subfloor to prevent tile/grout cracking. If additional mechanical fixings are needed, typically five per board (*one in each corner and one in the middle*) are used.

Properties: Resistant to external environment and temperatures.
Low thermal conductivity (0.034W/mK) unaffected by moisture.
Does not expand or contract as temperature and humidity alters.
Absorbs lateral movement in the sub-floor to reduce the risk of cracking in the paved/tiled surface.
Completely impermeable to water.

Limitations:

- 1) Compounds containing organic solvents (*including solvent-based tile sealers*) must not be used.
- 2) Temperatures in excess of 75°C are not appropriate.
- 3) The board can compress if point load pressure is applied therefore tiles no smaller than 50mm x 50mm should not be used on the floor.
- 4) Should not be installed upon fresh concrete / screed as the waterproof nature of the board will limit evaporation.
- 5) If the floor includes expansion joints, The Tilebacker must not be fitted over them.