Specification for lining a swimming pool

Product Ref: **Marmox Multiboard**

Product Use: Intermediate decoupling substrate to ceramic within the inside of a swimming pool.

Manufacturer: Marmox Ltd
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Description: Extruded polystyrene covered on both sides with fibreglass mesh encased in a c.1mm layer of polymer modified concrete permanently bonding the mesh to the polystyrene.

Dimensions: Width = 600mm, Length = 1250mm, Thickness = 12.5mm or thicker

Specification: 1) Prime the concrete with a standard concrete primer appropriate for the tile adhesive being used.

2) Using a 6 to 8mm notched trowel, apply a continuous layer (3 to 4mm deep) of 'flexible grade' cement-based tile adhesive - **either** *Ardex X77 or Mapei Keraflex* to a 12.5mm or 20mm Marmox board.

3) press the boards evenly the concrete walls and base making sure that there are no voids between the concrete base and the Marmox boards.

4) At corners, leave a 5mm gap and fill this with Marmox sealant: MSP-360

5) When movement joints are necessary (*as required by BS5385: 2015*), these must not be covered with the Marmox boards - these movement joints must be continued in the Marmox layer. MSP-360 can be used to seal these joints.

6) Apply the first layer of waterproofing coating: *__either__ A or B:* -

    A) Ardex S7, applied with a 4mm trowel then flattened out to give a thickness of c.1.5mm

    B) Mapei Mapeilastic, applied with a roller to give a thickness of c.1.5mm

7) Whilst this coating is still wet, press into its surface the Ardex or Mapei flexible tape + internal corners over ALL board joints and corners (*Ardex SK12 or Mapei Mapeiband*)

8) When cured, apply a second coating of the waterproofing material (*Ardex S7 or Mapei Mapeilastic)* giving a total thickness of c.3.0mm

9) When cured, fix the tiles to this surface using the same flexible cement-based tile adhesive as was used to fix the Marmox boards down with. Again, it is essential that there are no voids between the tiles and the Marmox board.

10) Finally, grout the tiles using an epoxy grout (*Ardex EG8 or Mapei Kerapoxy*)

Limitations: 1) Compounds containing organic solvents must not come into contact with Marmox board.
2) Temperatures in excess of 75°C are not appropriate.
3) Boards should, when possible, be laid in a staggered format.
4) Small mosaic tiles (*smaller than 5cm x 5cm*) are not recommended because during pool maintenance times, stepladders etc may be positioned in the empty pool imposing a point load.