

Membrane & Tanking Systems

Data sheets

WATERPROOF MEMBRANE WOP

for substrate protection

Application and Function:

WOP membrane is a crack-bridging waterproof membrane comprising polyethylene embedded on both sides with a geo-textile to facilitate high grip from a flexible tile adhesive or vinyl-acrylic adhesive. WOP is bonded to an even load-bearing substrate and tiled over using the thin-bed method. Alternatively finish with other trowel-applied covering eg plaster. Overlap membrane by 70mm with tile adhesive only for waterproofing purposes. WOP tape may be used to seal over expansion joints or flexible edge joints.

WOP Properties & Areas of Application:

WOP is a tile backer board on a roll and very versatile.

WOP is waterproof and resistant to most chemicals commonly encountered in tiled areas.

WOP is age resistant, rot proof and elastic. WOP is resistant to saline, acid and alkaline solutions, many organic solvents, alcohols and oils. Suitable for walls and floors where protection against moisture protection or other harmful substances is necessary. Instances include bathrooms, showers, wetrooms and in industry eg brewing, dairy, foodstuffs etc.

WOP Installation:

- Substrate must be clean, dry, even and load-bearing. Prime porous or timber surfaces.
Use a bag-powder flexible tile adhesive on timber or concrete. Or vinyl-acrylic onto timber eg F.Ball F44, Ardex AF200, Mapei VS90. Always use flexible tile adhesive on floors where WOP is being used as a wetroom sealing membrane.
- 1. Apply adhesive with a 3 x 3 or 4 x 4 notched trowel.
- 2. Adhere WOP by pressing down with float or batten, overlapping joints by 70mm or butt-joint and overlay with WOP Tape.
- 3. At wall / floor joints bend 90° or use WOP tape bent 90° and embedded into flexible tile adhesive.
A waterproof connection can be made to structural building elements with the use of a two part epoxy adhesive.
- 5. Tiling can commence immediately using the thin bed method with flexible tile adhesive of a bag powder type. For acid resistance use epoxy adhesive to set, and grout tiling.

Specifiers Template: Bond according to manufacturer's specification

_____ m² WOP MEMBRANE as

- de-coupling matting
- crack-bridging polyethylene membrane with geo-textile backing on both sides to enable bonding within the tile adhesive. Use as waterproofing on existing load bearing substrate on the

■ floor - comprising _____

■ wall - comprising _____

with suitable tile adhesive, Type _____

material	_____	£	_____	/m ²
labour	_____	£		
Total	_____	£		

WOP Membrane and MAXO Membrane are two versatile waterproofing products that can be tiled over immediately without a delay for drying. WOP is most commonly used unless major de-coupling or exterior usage is required.

WOP MEMBRANE “Tile backer board on a roll”

Superior polymer membrane for:

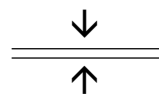
- Waterproofing / Tanking
- De-Coupling; stops tiles cracking

WOP Roll 1000 x 25 mt.

1000 x 5 mt.

WOP Tape 150 x 25 mt.

0.15 mm

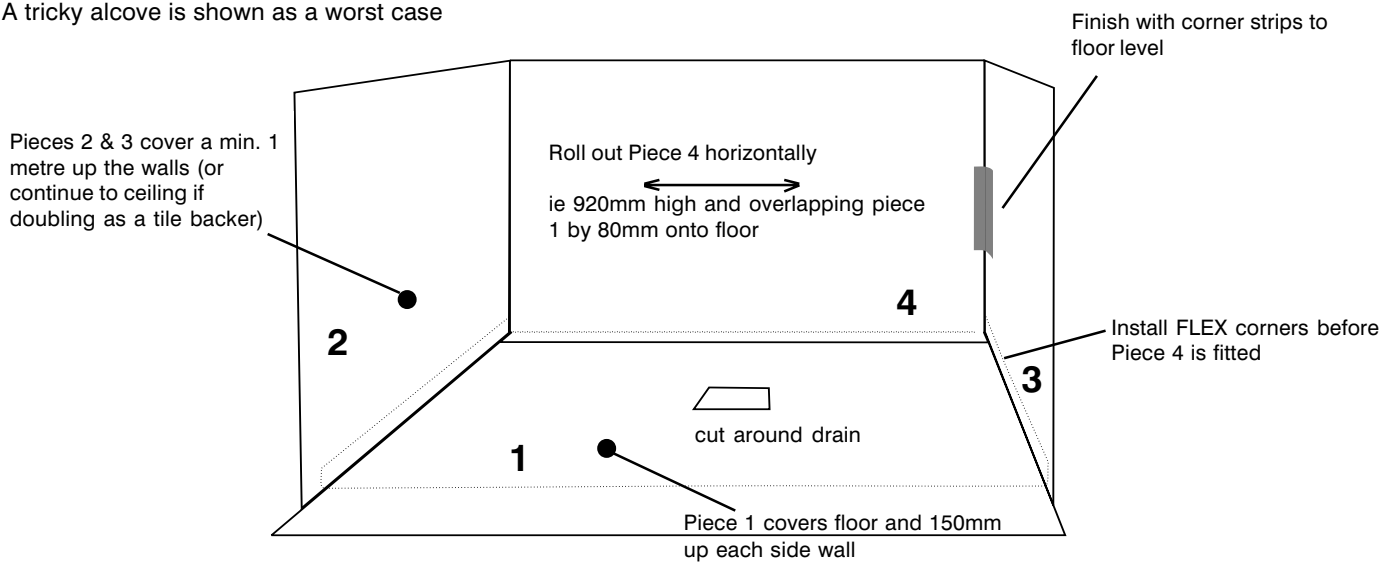


Benefits

- Featherweight
- Very fast installation (lay 15 m²/hour)
- Crack - bridging
- De-couples allowing movement on stud walls or timber floors
- Cut with scissors — no drilling
- 0.15 mm gives no increase in thickness
- Compatible with UFH above membrane only

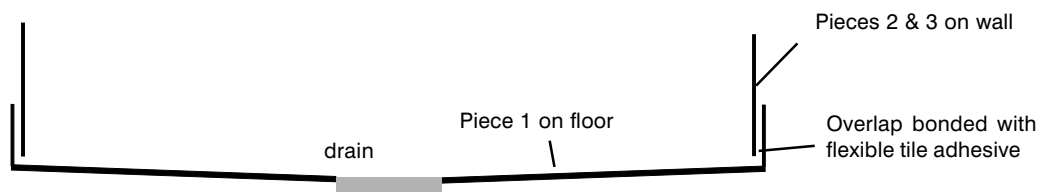
APPLICATION: LAYING WOP AS A WATERPROOF MEMBRANE.

A tricky alcove is shown as a worst case



Tailoring the membrane stages 1 - 4

Side View



ADHESIVE: WOP membrane is bonded with a bag-powder flexible tile adhesive onto concrete or timber. Primer-seal the timber first. Overlap joints are bonded the same way.

TO FINISH: Use WOP tape in the vertical corners or make your own by cutting 150 mm wide strips of membrane.

DO NOT: Use silicone to join membrane or seal gaps.

LASTOGUM X tanking system for wetrooms & bathrooms

- Used to provide a flexible waterproof membrane ('tanking'), before tiling – over with a flexible bag-powder (cementitious) tile adhesive.
- Proven over 25 year, a 2 – coat application will protect even when cracks up to 1mm open in the substrate.
- Will cover any substrate, but use primer over timber or plasterboard or any porous surface.
- Non-toxic, clean brushes in water.
- Can be trowelled, but will cover 7 – 8 mts. sq. by brush or roller.

Kit Contents

- 1 bucket 8k
- 1 litre primer
- 10mt flex tape
- 2 internal corners
- 2 pipe collars
- 1 brush 75mm

Application

1. Preparation: Check that the substrate is sound & free of contaminants that may interfere with good adhesion. Remove loose material. There must be no significant irregularities. Fill cracks with Gripfill, Pink Grip or Polyfilla – type adhesive fillers.
2. Measure the wet area - this is defined as the shower area plus 50%. Lastogum X will be applied 1.7 mts up the wall. Therefore the kit contents are sufficient for a shower area of 1200 x 900 (ie: wet floor area 1.75 x 1.3 x 1.7 up the wall) .
3. Prime the substrate if porous. Primer G is water-based and can be thinned to produce 2 litres. Allow to dry.
4. Apply first coat of Lastogum X in one direction only. Start high in the corner of the wall, bedding a 1.7 m length of tape into the first coat. Complete the wall area. Apply pre-formed corner in place, then more tape into wall/floor joint, over-brushing as you go. Use pipe collars for copper shower-supply pipes. Allow to dry overnight or may be overbrushed after 3 hours.
5. Apply second coat of Lastogum X in the opposite direction (ie: at 90 degrees).
6. Tile with bag – powder flexible tile adhesive (not ready-mixed), taking care not to damage or pierce the tanking with sharp corners of trowel.

NOTE: Fully compatible with all electric underfloor heating systems laid over the tanking membrane.

BSA SELF-ADHESIVE BITUMEN MEMBRANE

For the tanking of internal wetroom walls and floors.

- Retains water within the 'wet area', preventing leakage to rooms below.
- Suitable for homes, hotels, flats, sports facilities, changing rooms, hospitals.
- Remains flexible allowing for movement in the building structure.

Comprises of a 2 mm thick self-adhesive, cold-applied membrane with unique adhesive band on front face (90 mm wide) to promote secure adhesion. Perfect for stone, brick, timber, concrete, plasterboard, existing tiling (if securely fixed). No drying period, can be tiled immediately using bag-powder flexible tile adhesive.

- Use in bathrooms, shower areas, wetrooms, balconies, kitchens.
- Maximum tile/adhesive/grout load combined 20 kg/m² = 10 mm tile thickness.
- Suits any cable UFH system.
- 1000 mm wide rolls, primer, joint tape, adhesive sealant cartridge, roller.
- Kits 10 m² and 5 m².

INSTALLATION METHOD

Firstly apply tape to wall/floor joint, corners and places where membrane edges meet. The membrane is applied to walls and floor, followed by sealing the joints with a skeleton gun.

It may be preferred to apply to floors only, dressing up walls by 100 mm only, then tanking the walls with the tanking kit or WOP membrane: This overcomes the tile loading limitation.

MAXO MEMBRANE FOR DE-COUPLING

Superior polymer membrane with reinforcing mesh for gripping tiles and geo-textile backing for adhering to substrate.

- For tiling over concrete with embedded UFH pipes where expansion and contraction will cause cracking of tiling.
- For tiling over timber floors where de-coupling will prevent cracking of tiling.
- For lining basement floors and walls to stop damp penetration.
- For waterproofing wetroom floors.
- For tiling inferior or cracked substrates and mixed substrates.
- For waterproofing exterior balconies and walkways of steel or timber.
- For protecting porous substrates, eg timber, plasterboard from moisture.

Wet substrates:

Suitable for wet screeds and green concrete, as the continuous air channels equalise the temporary vapour pressure below the membrane.

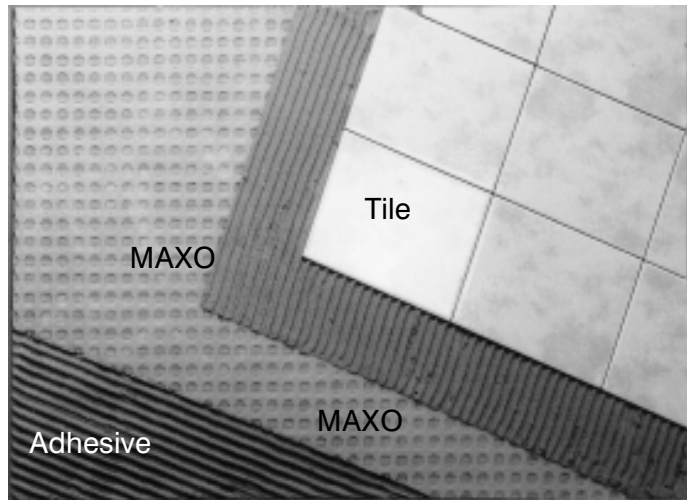
Allows immediate tiling.

Underfloor heating:

Although the ambient floor temperature is 25-29° C the temperature adjacent to electric heating cables is 60°C. there must be a 5 mm minimum gap between MAXO and cable. To achieve this bed cable into latex self-levelling compound or flexible tile adhesive. The air channels of MAXO MEMBRANE dissipate the heat efficiently in all directions. UFH can be above or below membrane.

Tensile strength:

The geo-textile backing grips adhesive creating a bond with a strength of 19 tonnes per square metre or 0.2 N/mm².



- MAXO Roll 1000 x 25 mt.
- 1000 x 5 mt.
- WOP Joint Tape 150 x 25 mt.

MAXO MEMBRANE is not suitable for the primary waterproofing layer externally over residential accommodation.

Recommended for:

- Green concrete or wet screeds (after drying 5-7 days).
- Liquid bitumen screeds.
- Plywood, chipboard or metal.
- Gypsum screeds of below 2% moisture content.
- Gypsum plaster or blocks.
- Mixed masonry or existing tile.
- Load-bearing insulation.

INSTALLATION METHOD

Use a cementitious flexible bag-powder tile adhesive on concrete or timber. Primer-seal the timber first. Alternatively on timber use a vinyl-acrylic adhesive eg F.Ball F44, Ardex AF 200, Mapei VS 90. On a wetfloor always use tile adhesive for bonding to substrate.

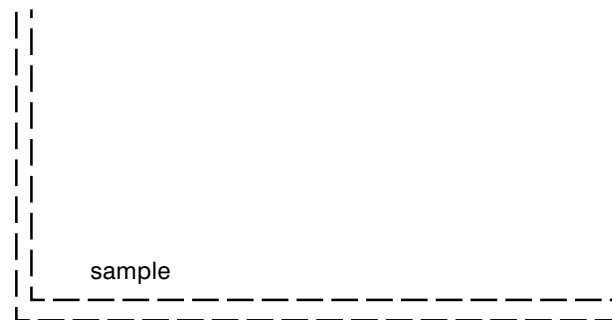
Minimum tile size: 50 mm x 50 mm.

Specifiers template: bond according to manufacturer's specification

_____ m2 MAXO MEMBRANE as

- de-coupling matting
- waterproofing/de-coupling matting for tiling comprising 3 mm polymer membrane with pattern of reinforcing scrim and geo-textile backing to an existing load-bearing substrate on the
- floor — comprising _____
- wall — comprising _____

with suitable tile adhesive, Type _____



material	_____	£	/m²
labour	_____	£	
Total	_____	£	

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