

TECHNOSEAL DPM

Liquid Damp proofing membrane

Technoseal DPM is a ready-to-use, liquid damp-proofing membrane which provides a seamless, waterproof and radon barrier, ideal to use as part of a below ground-level waterproofing system.



Technoseal acts as a barrier against methane and carbon dioxide gases. It is safe to use in potable water and can be applied to pond lining as a waterproof barrier.

Ideal for areas with constant water contact, such as under tiles in bathrooms, food processing areas and balconies.

ADVANTAGES

- Single pack system
- Water based compounds that can be applied even to damp backgrounds.
- Non-toxic, non hazardous, solvent and plasticiser free.
- Gas barrier for carbon dioxide, methane and radon.
- Tough, high flexibility, extensibility and good crack bridging properties.
- Low water vapour permeability.
- Alkali resistant, can be applied to alkaline surfaces.
- Resistant to silage acids.
- Non staining and stain blocking.
- Quick drying. Typically touch dry in 1 hour.

TYPICAL USES

Multi purpose waterproofing paint system for foundation walls and floor slabs. Non hazardous Radon and methane barrier paint or roller applied.

TECHNICAL DATASHEET

SUBSTRATE PREPARATION

1. The substrate should be smooth or have a light, even texture. Any masonry should be flush pointed and defects in existing surfaces made good.
2. Ensure surface is clean, sound and free of dust, loose materials or surface water, but damp substrates are acceptable. It is sometimes advantageous to pre-wet concrete or masonry substrates before application.
3. Test adhesion to substrate using a sample area before commencing application.

MIXING

If necessary, the compound can be diluted with up to 10% water, however, care should be taken to ensure the correct dry coat thickness is achieved.

APPLICATION

Technoseal can be applied using brush, roller or airless spray.

SINGLE COAT APPLICATION:

If a single dry coat thickness of more than 0.3 mm is required, it is recommended that Technoseal be applied using airless spray. A single coat thickness of up to 1 mm is possible using this application method.

TWO COAT APPLICATION:

If two coats are being applied it is recommended that the coats be applied at right angles to each other. Before applying the second coat it is necessary to let the first coat become touch dry. The time scale for this will vary according to site conditions, but will typically be after 1 hour.

The second coat should be applied within 24 hours. After all coats have been applied, the membrane should be left for at least 4 days before attempting any bond tests.

ROOF APPLICATIONS:

Blistering can sometimes occur during this application process. This occurs when the heat from the sun causes a vapour pressure build up below the membrane. The problem is exacerbated if the background concrete is wet. To minimise this risk and ensure a good bond to the substrate, the following should be undertaken.

- Vigorously brush the first coat into the background concrete using a stiff bristled brush.

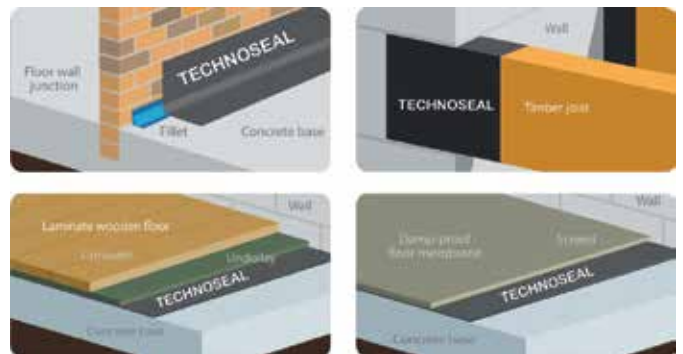
OR

- Prime the roof with a slurry of SBR Latex, if using roller, or an airless spray application method. Allow the slurry to harden for 2 days before applying Technoseal.

WALL/FLOOR JUNCTIONS:

In some situations, e.g. at high stress points such as wall/floor junctions, it is beneficial to use polypropylene fabric (skrim) reinforcement. By choosing a suitable reinforcement it is possible to achieve good control of the coating thickness.

1. Choose a fabric with an approximate thickness of 0.5 mm.
2. Roll the fabric into the base coat while wet.
3. Allow the first coat to dry to a tacky condition
4. Completely fill and cover the mesh with the second coat of Technoseal and a minimum thickness of 0.6 mm will automatically be achieved.



CONDITIONS & LIMITATIONS

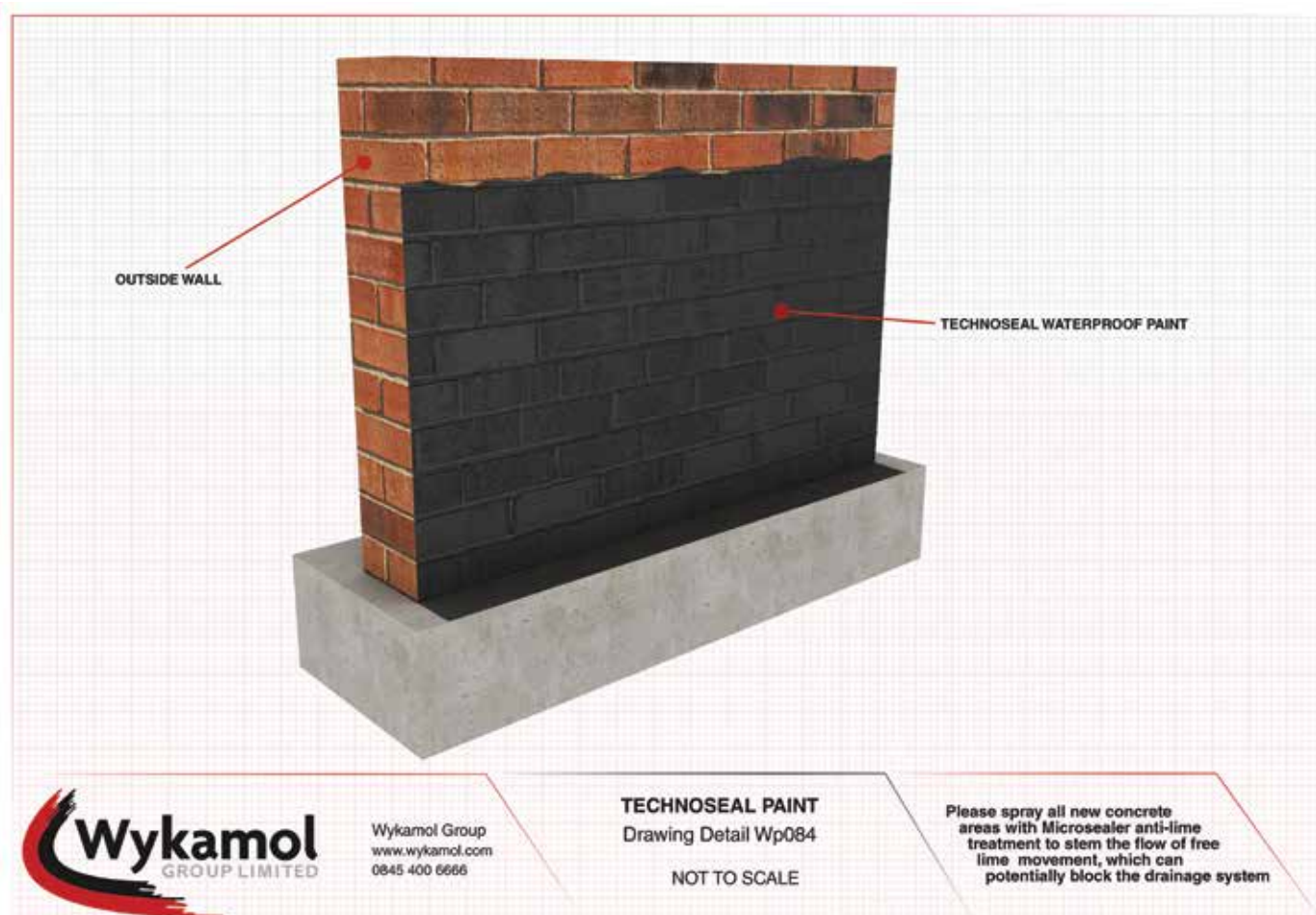
Technoseal should not be applied when the temperature of the substrate, or the air temperature is below 7°C and falling.

The dried film, like most organic coatings, is combustible and hence will not be suitable in all situations e.g. it should not be used to coat flammable materials (expanded polystyrene).

A minimum dried coat thickness of 0.6 mm is needed to provide a vapour barrier. This should be applied in a minimum of two coats.

The incorporation of polypropylene fabric increases the tensile strength but decreases the extensibility.

TECHNOSEAL DPM LIQUID MEMBRANE



Adhesion to Substrate	Test Type	Results
Concrete 14 Days Air Cured	Pull-off Test	1.3 - 2.1 N/mm ²
Concrete 3 Months Immersion in Water	Pull-off Test	Above 1.0 N/mm ²
Concrete 28 Days Air Cured	Slant Shear	33 N/mm ²
Brick (Fletton) 28 Days Air Cured	Pull-off Test	2.5 N/mm ²
Lightweight aggregate block	Pull-off Test	- 0.5 N/mm ² due to failure of block
Steel 28 days Air cured	Pull-off Test	1.6 - 3.1 N/mm ²
Plasterboard, Plywood and Lead	Peel Test	Strong Bond judged Subjectively

Adhesion of materials onto dried membrane	Test Type	Results
Ceramic Tile Adhesives	Bond strength/Pull-off Test	0.5 N/mm ²
Floor Screeds / Renders	Pull-off Test	2 N/mm ²

CURING

Touch dry within 1 hour the Initial cure within 24 hours and full cure is 4 days.

CLEANING EQUIPMENT

All tools should be cleaned with water immediately after use.

PACK SIZE AND COVERAGE

Pack Size: 5 Kg Buckets.

Coverage: Up to 5 m² in a two coat application.

STORAGE & SHELF LIFE

Store in a sealed container, in temperatures between 5°C and 35°C, protected from frost and direct sunlight. Shelf life is 12 months when unopened, undamaged and stored correctly.

HEALTH AND SAFETY

For further information and advice please contact the Wykamol Technical Department and consult the Safety Data Sheet, which is available upon request.



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