Specialist Geomembranes

Landflex Vapour Membrane

A single component acrylic modified coating that once cured, provides a liquid applied waterproof, damproof, radon, methane and carbon dioxide barrier.

Can be applied by airless spray, roller or brush to walls, floors and soffits or as an alternative to sheet membranes in new construction, or as a retro applied water and gas proof membrane to concrete, masonry and brick substrates.



Characteristics

- A 0.7mm thick (dry film) coating provides an effective methane barrier when applied to most clay or cementitious based construction materials.
- An effective waterproof membrane
- Excellent adhesion, bonds to porous and non-porous substrates
- Flexible
- Non-toxic
- Will withstand temporary light traffic
- Cannot be punctured as fully bonded
- Easily repaired by overcoating
- Can be painted, plastered or screeded over
- Rapid drying, in good conditions, 2 coats can be applied in the same day
- Can be applied by brush, roller or airless spray
- Can be applied to damp and 'green' substrates

Form	Thixotropic Liquid
Specific Gravity	1.40 (approx.)
Application Temperature	+ 4C
Toxicity	Non Toxic
Cured Properties	
Adhesion to concrete	1.1 N/mm^2
Elongation ASTM D2370 %	>100%
Tensile strength ASTM D2370	11 N/mm^2

Chemical resistance

Good chemical resistance to gasoline, sodium hydroxide, calcium chloride, de-icing salts and effluent

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Product performance is illustrated in the following table with the accepted criteria for diffusivity (test work done at 0.2 bar).

Accepted Criteria	Landflex Vapour Membrane
R>50m	357.5m

Where R = air diffusion equivalent for carbon dioxide in metres
Gas (methane) permeability : 8.5 x 10-16ml/m^2/s**

** This is an independant 3rd party UKAS accredited test - test certificate no. 12811

Application Guidelines

- Surfaces must be clean, free from dust and loose material, oil, paint, fungal growth etc.
- Non structural cracks >0.5mm wide must be filled
- Structural cracks must first be repaired and filled
- The substrates must be sound and ideally present a smooth face
- Old repairs must be inspected and repaired if necessary
- Newly laid concrete should have a clean textured surface. Can be applied to concrete or mortar within 24 hours of laying

Mixing

Landflex Vapour membrane is supplied ready blended in a pail. The product requires agitation using a slow speed paddle mixer. Mix carefully for 5 minutes before use. If containers are stored for more than 2 hours after opening, re-agitate.

Do not add water

Surface Application

Pre-dampen (not wet) the substrate before applying the first coat

Interface with other media

- For expansion joints ensure that Landflex Vapour Membrane is applied well into the rebate before the expansion media is applied.
- Other gas membranes must be exposed and lapped with Landflex Vapour Membrane where present

Dealing with Cracks

Cracks must be stabilised and filled. Apply the first coat of Landflex Vapour Membrane and apply plasterers polyurethane scrim along the line of the crack, apply a further coat to fully cover the scrim: apply the final coat as stated below.



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Application of the main coating system

1. The product can be applied by stiff brush, roller or airless spray with a minimum 17 thousandths of an inch nozzle. The spray method is especially suitable for less accessible locations and uneven substrates.
2. The first primer application is applied at the rate of >0.5 lt/m for waterproofing and >0.3 lt/m for an effective gas proof membrane. Ensure that the coating is even; use a circular action when spraying.
3. Allow the primer coat to dry before applying the second coat.
4. Apply the second coat at the rate of >0.7 lt/m for waterproofing and >0.5 lt/m for gas proof applications; for brush application, apply at right angles to the first coat. Again use a circular action when spraying. Application rate will depend on the substrate surface.
5. Do NOT apply over Bitumen.
6. The total application thickness must not exceed 4mm if splitting or cracking is to be avoided.
7. Protect from frost and rain.
8. Only apply when temperature is 5°C and rising.

Specification
NBS: Clause J30 10, 130 - Liquid applied damp proofing
Type A barrier protection in accordance with BS8102 (2009)

Packaging
Supplied in a 20 litre pail

Colour
Mid grey

Storage
Must be stored at temperatures above 5C and below 35C in dry conditions, off the ground and away from direct sunlight.
The shelf life is 12 months in original unopened packaging when stored correctly.

Health & Safety
- Protect hands with rubber gloves
- Avoid contact with skin and eyes. Should this occur, flush with plenty of clean water.
- If irritation persists, seek professional medical advice.
- For full information consult the relevant safety data sheet.

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