

# Protech LAGM

## LIQUID APPLIED GAS MEMBRANE

### DESCRIPTION

Protech LAGM is a liquid applied single component acrylic modified coating that once cured, provides a waterproof, damp proof, radon, methane and carbon dioxide barrier. Independent 3rd party test certificate / data available.

### TYPICAL APPLICATIONS

- To seal over pile caps as an accessory to the Protech GM range of membranes.
- Can be used to provide a gas resistant seal in 'hard to treat' areas where the Protech GM membranes cannot be used to seal.
- Can be applied, in three layers, using a brush, roller or spray.

### CHARACTERISTICS

- 1.4mm thick (dry film) coating provides an effective methane barrier when applied to most clay or cementitious base construction materials
- Effective waterproof membrane
- Excellent adhesion, bonds to porous and non-porous substrates
- Flexible
- Non-toxic
- Will withstand temporary light trafficking
- Hard to puncture as fully bonded
- Easily repaired by locally over-coating
- Can be painted, plastered or screeded over
- Rapid drying, in good conditions two 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 if the overall environmental conditions are conducive to drying

### PERFORMANCE CRITERIA

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

Accepted Criteria	Protech LAGM
R>50m	357.5m

Where R = air diffusion equivalent for carbon dioxide in metres.

Gas (methane) permeability:

Tested by independent laboratory to ISO-15015-1 on 1.4mm thick cured samples. Test result = 16.3 ml./m<sup>2</sup>.day

Date of Test: 03/03/2020 report number LR2236A.

Note: The methane gas permeability values gained by this method can also be used for Radon gas permeability values.

\*\*This is an independent 3rd party UKAS accredited test - test certificate No. 12811RevB

Date of Test: 16.12.2009

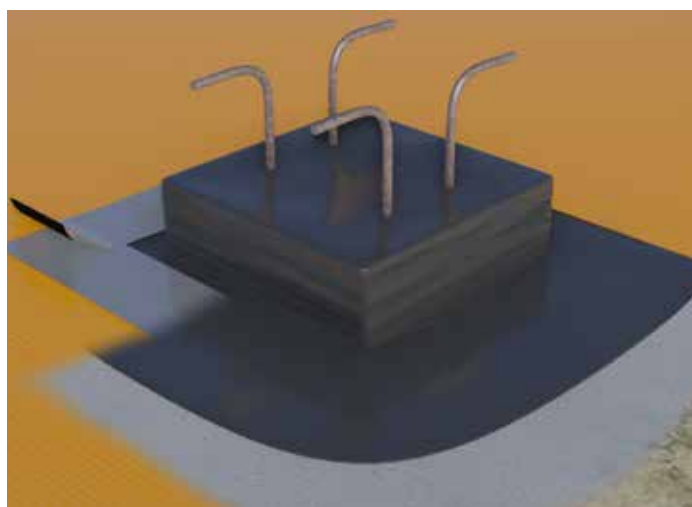
Note: The methane gas permeability values gained by this method can also be used for radon gas permeability values.

### PRODUCT DATA

Components	1
Form	Thixotropic Liquid
Specific Gravity	1.40 (approx)
Application Temp	Plus 4°C
Toxicity	Non - toxic
Thickness	Minimum 0.7 mm (applied in two layers).
Size	12.5 kg
Cured Properties	
Adhesion to concrete	1.1N/mm <sup>2</sup>
Elongation ASTM D2370 %	> 100%
Tensile Strength ASTM D2370	11 N/mm <sup>2</sup>

### 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 substrate must be sound and ideally present a smooth face
- Newly laid concrete should have a clean textured surface; Protech LAGM can be applied to concrete or mortar within 24 hours of laying
- Apply 45° fillets onto angles formed of fillet seal where practicable.



## PREPARATION PRIOR TO USE

Protech LAGM 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, reagitrate.

Do not add water.

## SURFACE APPLICATION

1. Pre-dampen (not wet) the substrate before applying the first coat.
2. Ensure adequate application of the Protech LAGM to allow a minimum 150mm, overlap zone.
3. Site applicable Protech GM membrane should be installed with a minimum 150mm overlap onto the Protech LAGM and sealed using Protech GM Jointing Tape and/or Protech Flashing Tape.

### Application of the main coating system

1. The product can be applied by stiff brush, roller or airless spray with a minimum 17 thousands of an inch nozzle. The spray method is especially suitable for less accessible locations and uneven substrates.
2. Methane protection is achieved by applying three even coats at 0.8l/m<sup>2</sup>, allowing each coat to thoroughly dry and cure through before applying the next. Be especially careful to achieve the dry film thickness of 1.4mm over the entire surface, remembering that peaks and edges may not be the full thickness. Application to vertical surfaces may result in sagging or runs, in such cases, four thinner coats should be applied with attention to the evenness of each coat. Preparation is paramount and hard edges and exposed aggregate must be removed where possible, or compensated for.
3. Total coverage for methane protection should be 2.4l/m<sup>2</sup>
4. Protect from frost and rain.
5. Only apply when temperature is 5°C and rising.

## SPECIFICATION

NBS: Clause J30 10, I 30 – Liquid applied Damp Proofing  
Type A Barrier Protection in Accordance with BS8102 (2009).

## PACKAGING

Protech LAGM is supplied in a 12.5ltr Pail.

## STORAGE

Protech LAGM must be stored at temperatures above 5°C and below 35°C 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 Material Safety Data Sheet.



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