

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 two layers, using a brush, roller or spray.

CHARACTERISTICS

- 0.7mm 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

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:

Methane Gas Permeability (K/gas) (m/s)	Methane Gas Permeability (K/gas) (ml/m ² /s)
8.527×10^{-15}	8.527×10^{-9}

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

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	20 litre
Cured Properties	
Adhesion to concrete	1.1N/mm ²
Elongation ASTM D2370 %	> 100%
Tensile Strength ASTM D2370	11 N/mm ²

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

- Pre-dampen (not wet) the substrate before applying the first coat.
- Ensure adequate application of the Protech LAGM to allow a minimum 150mm overlap zone.
- 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. The first Protech LAGM primer application is applied at the rate of **>0.3lt/m** for effective gas and water resistance. 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 **>0.5lt/m** for effective gas and water resistance; for brush application, apply at right angles to the first coat. Again use a circular action when spraying. Application rate will depend on 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

Protech LAGM is supplied in a 20ltr 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.



Download a brochure from
our website...

www.proctorgroup.com



contact@proctorgroup.com | +44 (0) 1250 872261

Revised January 2020