

Liquid Gas Membrane



- Low permeability to methane, carbon dioxide and radon gases
- Quick Installation times due to rapid drying properties
- Waterproofing membrane for below ground applications
- Vertical and horizontal damp proof membrane
- Non toxic water based liquid

Description

Visqueen Liquid Gas Membrane is a grey, one part elastomeric polymer modified liquid that dries to form a black, flexible membrane. The product is supplied in a 20L container.

Typical Applications

Visqueen Liquid Gas Membrane is used for providing damp proofing, gas proofing or waterproofing for a range of applications, including:

- Gas and damp proofing of solid concrete floors
- Vertical gas and damp proofing of rendered brickwork and blockwork masonry walls
- Gas and damp proofing of junctions with steel stanchions
- Complex gas and damp proofing of detailing applications
- Gas and waterproofing of basement structures and lift pits

When designing structures incorporating Type A waterproofing protection as classified in BS 8102: 2009 (Code of practice for protection of below ground structures against water from the ground), the product is suitable for Grade 1, 2 and 3 structures.

Visqueen Liquid Gas Membrane system is not designed for use as a gas or damp proof course. Visqueen supply a range of products for this application; please contact our technical sales office for further information.

Visqueen Liquid Gas Membrane must not pass through structural zones such as pile caps, pile tops and sheer walls where a concrete to concrete bond is required.

System Components

Visqueen Liquid Gas Membrane system consists of:

- Visqueen Liquid Gas Membrane – 20L container (approximate total coverage 1.0 litre/m²)
- Visqueen Liquid Gas Membrane Primer – 5L container (approximate total coverage 0.25 litre/m²)
- Visqueen Liquid Gas Membrane Reinforcing Strip – 300mm x 100m

When used to provide gas or waterproofing to the external face of lift pit structures, cover with Visqueen TreadGUARD1500 or Visqueen Protectadrain.

Preparation

All surface must be clean, smooth and free from dust, or loose material. Standing water must not be present. Any surface contamination e.g. oil, paint, snots, fungal growth, etc must be removed.

All substrate cracks must be repaired and filled prior to product application.

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 BUILDING PRODUCTS



Liquid Gas Membrane

Movement joints should be provided with a waterstop/ sealant system to an Engineer's specification.

Where pipes penetrate the structure, Visqueen Preformed Top Hat Units should be provided.

Precautions

Visqueen Liquid Gas Membrane system should not be applied at temperatures below 5°C, or when temperatures can be expected to fall below 5°C before the primer or membrane has dried. Temperatures below 5°C will render the products unfit for use. The system must not be applied during rainfall or when rain is expected before the primer or membrane has dried.

Primer application

Visqueen Liquid Gas Membrane Primer is supplied ready for use and requires agitation prior to use. Visqueen Liquid Gas Membrane Primer can be applied by brush, roller or airless spray.

For optimum performance, all substrates should be primed with Visqueen Liquid Gas Membrane Primer at a rate of 0.25 litre/m². Ensure that the primer is applied evenly and if spraying, use a circular action. Allow the primer to dry (approximately 2 hours depending upon surface, temperature, humidity and ventilation).

Visqueen Liquid Gas Membrane can be applied to un-primed green concrete.

Membrane application - general

Visqueen Liquid Gas Membrane is supplied ready for use. Do not add water. The product must be stirred for 5 minutes before and occasionally during use using a slow speed paddle stirrer. Visqueen Liquid Gas Membrane can be applied by brush, roller or airless spray.

Construction joints and horizontal to vertical junctions should be reinforced by pre-treating with a coat of Visqueen Liquid Gas Membrane at a coverage rate of 0.5 litre/m², applied 100mm either side of the joint or junction and into which is bedded Visqueen Liquid Gas Membrane Reinforcing Strip. Allow to dry.

Visqueen Liquid Gas Membrane is applied in two coats, each at a coverage rate of 0.5 litre/m². For brush and roller application apply in one direction. When spraying, use a circular action. Allow each coat to dry fully before applying the following coat (approximately 2-3 hours depending upon temperature, humidity and ventilation). Visually the membrane will turn black as it dries. Apply successive coats at right angles to the previous coat.

All tools should be cleaned with water immediately after use.

Covering

Visqueen Liquid Gas Membrane should be covered by a protective layer as soon as possible after installation. Some common finishes are described below.

When used to provide a vertical damp proof membrane to the internal face of existing above-ground walls showing damp ingress, the final coat of Visqueen Liquid Gas Membrane should be blinded with clean sharp sand whilst tacky. When fully dry, a finish of minimum 12mm gypsum based plaster system should be applied before decorating.

When used to provide a horizontal gas or damp proof membrane on solid concrete floors, cover with minimum 50mm sand/ cement screed.

When used to provide gas or waterproofing to the external face of lift pit structures, cover with Visqueen TreadGUARD1500 or Visqueen Protectadrain.



Liquid Gas Membrane

Page 3

Shelf Life and Storage

Visqueen Liquid Gas Membrane and Liquid Gas Membrane Primer have a shelf life of minimum 12 months when stored in sealed containers at temperatures of 5°C to 25°C. Both products must not be subjected to temperatures below 5°C during storage or transportation. Temperatures below 5°C will render the products unfit for use. Store in a dry location out of direct sunlight.

Health and Safety

Visqueen Liquid Gas Membrane and Liquid Gas Membrane Primer health and safety data sheet is available on request and should be read prior to product use.

Specification

J30 10 130– Liquid Applied Tanking / Damp Proofing in accordance with NBS Clauses. Please consult Visqueen for further information.

Technical Data and CE Mark

Visqueen Liquid Gas Membrane complies with the requirements and clauses of EN 13967 - Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic rubber basement tanking sheet - Definitions and characteristics.



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Appendix A



Visqueen Building Products

Visqueen is the market leader in the manufacture and supply of structural waterproofing and gas protection systems. Visqueen offers the complete package - a proven, reliable range backed by a technical support service that goes unmatched in the market - everything you would expect from a reputable and ethical company.

System Accessories

To ensure full waterproofing protection please use the following certified system components:

- Visqueen High Performance (HP) Tanking Primer
- Visqueen TreadGUARD1500
- Visqueen Protect&Drain
- Visqueen Top Hat Unit

Downloads Library

- Technical Datasheet
- Declaration of Performance
- Visqueen's Guide to CE Marking

Find your local stockist

Search our directory of Visqueen specification Stocking Centres to locate your nearest Visqueen Partner.

Distributor Support

Our specification Stocking Centres can access a free library of sales support tools, bespoke catalogues and more, [click here](#).

Technical support throughout your project

We are specialists in our field and can help you specify the correct solutions with the necessary performance levels, in accordance with building regulations.

- Nationwide site support team
- Specification advice
- Installation guidance & project sign off
- System design including CAD details

