Technical Datasheet

# Visqueen Liquid Gas Membrane

## Features & benefits

- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
  Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
  Conforms to the specification requirements of BR 211:2023 - provides radon protection
  Used as a primer for Visqueen self adhesive membranes
  Fully bonded system - self terminating at the perimeter of the installation
  Seamless application - no lap joints
  Suitable for damp surfaces or green concrete - assists build sequencing

## Product description

Visqueen Liquid Gas Membrane is a blue-grey, single component, liquid-applied polymer modified emulsion that dries to form a black flexible damp proof, gas proof and waterproof membrane. It is supplied in a 12.5 L container.

## Approvals and standards

- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2023
- UKCA UKNI CE to EN 13967:2017
- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

## Usage

Visqueen Liquid Gas Membrane is a liquid-applied membrane designed for damp proofing, gas proofing and waterproofing a wide range of substrates. It is suitable for use both above and below ground, including applications to concrete, flush-pointed masonry, metal, retaining walls, cast and precast concrete, and steelwork.

The liquid-applied formulation is particularly suited to complex detailing and difficult-to-access areas, providing a continuous membrane without the need for extensive cutting or jointing associated with sheet-applied systems.

Visqueen Liquid Gas Membrane can also be used as a primer to prepare substrates prior to the application of Visqueen self-adhesive membranes, helping to provide an optimum surface for adhesion. Compatible products include:

- Visqueen Self Adhesive Membrane
- Visqueen Gas Resistant Self Adhesive Membrane
- Visqueen NF-Detailing Strip
- VisqueenPro Detailing Strip
- Visqueen Ultimate Self Adhesive Membrane

When used as a primer, the product is suitable for application to a wide range of substrates, including wood, metal, masonry, concrete and insulated concrete formwork (ICF).

When applied, Visqueen Liquid Gas Membrane is blue-grey in colour and dries to form a continuous black membrane.

Visqueen Liquid Gas Membrane is a functional membrane and is not intended to provide a decorative finish.

## System components

- VisqueenPro Detailing Strip, 300mm x 10m
- Visqueen NF-Detailing Strip, 300mm x 10m

## Storage and handling

Visqueen Liquid Gas Membrane should be stored upright, undercover and in its original packaging. Store at temperatures between 5ºC and 35ºC. Temperatures at or below 0ºC will render the products unfit for use.

To avoid the risk of spillage, always store and transport in a secure upright position.

Keep the container closed when not in use.

The product has a minimum shelf life of 12 months.

Care should be taken when handling the product in line with current manual handling regulations.



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# Visqueen Liquid Gas Membrane

## Preparation

Visqueen Liquid Gas Membrane system should be applied to substrates that are smooth, clean, and free from frost, dust, laitance, loose material and standing water. Any surface contamination e.g. oil, paint, mortar snots, fungal growth, etc should be removed. All substrate cracks, or surface irregularities should be repaired and filled prior to product application. Masonry units should be flush pointed.

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

Visqueen Liquid Gas Membrane should be stirred for 5 minutes before use using a slow speed paddle stirrer. Re-stir every two hours. Apply with a brush or roller. Brushes and rollers can be cleaned with water immediately after use. Brushes and rollers contaminated with dry product are not reusable and must be disposed appropriately after use.

The system should not be applied during rainfall or when rain is expected before the membrane has fully cured.

## Installation

Visqueen Liquid Gas Membrane can be applied directly from the tin using a brush, or transferred to a more appropriate container and applied by roller. Do not pour directly onto the surface.

For priming surfaces prior to the application of Visqueen self adhesive membranes, apply one coat at a coverage rate of at least 0.25 litre/m² (300g/m²) and allow to dry.

For damp proofing applications or waterproofing applications, apply two coats. Apply the first at a coverage of at least 0.5 litre/m² and the second at a coverage of at least 0.7 litre/m². Allow each coat to dry and cure through before applying the next. Total coverage for these applications is at least 1.2 litre/m² (min. 0.7mm dry film thickness).

For gas proofing applications apply three coats at a coverage rate of at least 0.8 litre/m²/coat. Allow each coat to dry and cure through before applying the next. Total coverage for this application is at least 2.4 litre/m² (min. 1.4mm dry film thickness).

Each coat of the product will dry in approximately 6 hours depending upon humidity, ventilation and temperature. High humidity, poor ventilation and/or cool temperatures will slow down the drying process. Visually the membrane will turn black as it dries. Apply successive coats at right angles to the previous coat. To reduce risk of inter-layer contamination, apply successive coats within 24 hours.

Construction joints should be reinforced with VisqueenPro Detailing Strip or Visqueen NF-Detailing Strip once all the coats of the membrane have been applied and each have fully dried.

In order to form an effective seal with any adjacent sheet membranes e.g. Visqueen Gas Barrier, form a butt joint with the dried Visqueen Liquid Gas Membrane and seal the junction with VisqueenPro Detailing Strip or Visqueen NF-Detailing Strip bonded 150mm onto each material.

When used to provide a vertical damp proof membrane to the internal face of existing above-ground walls showing damp ingress, apply an additional coat of Visqueen Liquid Gas Membrane to the dried membrane and blind 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 as a damp proof, waterproof or gas proof membrane, Visqueen Liquid Gas Membrane should be covered by an approved protection layer as soon as possible after the coats have been applied and each have fully dried.

## Usable temperature range

It is recommended that Visqueen Liquid Gas Membrane should not be installed below 5°C or when temperatures can be expected to fall below 5ºC before the membrane has dried.

Temperatures at or below 0ºC before the membrane has dried will render the products unfit for use.

## Additional information

Visqueen Liquid Gas Membrane is not designed for use as a gas or damp proof course (DPC) or to pass through structural zones where a concrete to concrete bond is required e.g. pile heads or shear walls. For additional information contact Visqueen Technical Services +44 (0) 333 202 6800.

The information in this datasheet was correct at the time of publication. As datasheets are reviewed and updated regularly, users should ensure they are referring to the latest version, available on our website. The most recent edition supersedes all previously published versions.
Version Number: 1.0



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# Visqueen Liquid Gas Membrane

Visqueen Liquid Gas Membrane data table.

| Property | Test method | Units | Results |
|---|---|---|---|
| Container size | | L | 12.5 |
| Colour when wet (dry) | | | Blue-grey (black) |
| Application temperature | | °C | >5 |
| Cured membrane | | | |
| Methane permeability | ISO 15105-1 | ml/m²/d/atm | <40 |
| Adhesion to concrete | | N/mm² | 1.1 |
| Water penetration | | 3 bar pressure | Pass |
| Elongation | ASTM D2370 | % | >100 |
| Tensile strength | ASTM D2370 | N/mm² | 11 |

## Health and safety information

Refer to the Visqueen Liquid Gas Membrane safety datasheet (SDS).

## About Visqueen

Visqueen is a leading provider of construction membrane technologies and design-based solutions for ground gas, structural waterproofing, damp proofing and fire protection.

We offer complete support at every stage of the specification, including the supply chain process. As the UK's principal technical authority, we are best placed to ensure that the principal designer and contractor specify the most technically suited, durable, and competitive solution to guarantee their project is protected for the lifetime of the building.

Visqueen is at the forefront of advanced membrane technology and innovation in the construction industry, earning the trust and loyalty of specifiers throughout the UK and Europe.

For more information, visit visqueen.com or contact our sales office at +44 (0) 333 202 6800 or enquiries@visqueen.com

## Complete Range, Complete Solution




Passive Fire Protection | Gas Protection | Damp Proof Membrane | Air and Vapor Control | Stormwater | Damp Proof Course | Temporary Protection

## Visqueen Technical Support

Visqueen offer a comprehensive full nationwide technical support. Our team of CSSW qualified technical support managers provide on site design-based solutions for specifiers, contractors and builders merchants, and will ensure that from design stage to installation the project is fully risk assessed and the specification is approved by all stakeholders.

Our Technical Office, can design, prepare and manage CAD detailing, together with assisting in quantity take offs, while offering advice on technical installations and product selection.

## Competency & Design

Visqueen promotes competency in building design by ensuring that its technical team possesses the necessary skills, knowledge, experience, and ethical practices. The company adopts the "golden thread of information," ensuring all project data is digitally secure and accessible throughout a building's lifecycle. This approach aligns with the Building Safety Act and aims to foster accountability and compliance with evolving regulations, providing clients with confidence in the safety and reliability of their projects.

## Visqueen CPD Seminars



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# Visqueen Liquid Gas Membrane

Visqueen's CPD Seminars offer insights into Building Regulations, Standards, and industry guidance related to damp proofing, hazardous ground gas protection, and structural waterproofing. These one-hour seminars are tailored for construction design professionals and delivered by our Technical Support Managers. Visit our website to book a free CPD.

## Visqueen Contract Design Services

Visqueen Contract Design Services offers a bespoke design service led by our team of Certified Surveyors in Structural Waterproofing (CSSW), providing experienced and specialised waterproofing design expertise for complex projects. We provide comprehensive support throughout the entire project, ensuring that all work meets the requirements of warranty providers and adheres to the highest standards of quality, reliability and current legislation.

## Visqueen Training Academy

Based at our Derbyshire facility, the Visqueen Training Academy offers a variety of training programs across the UK. These include one-day product awareness sessions for distributors and builders' merchants, and intensive two-day courses for hands-on product installation training. Contact us for more information.





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