Technical support: +44 (0) 333 202 6800

Date Published: 24/08/2023

Visqueen Liquid Gas Membrane

Features and benefits

- Complies with 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
- Fully bonded system - self terminating at the perimeter of the installation
- Seamless application - no lap joints
- Can be applied to damp surfaces or green concrete - assists build sequencing
- Versatile - ideal for complex detailing and difficult to reach areas

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

- Conforms to the specification requirements of BS 8485:2015 + A1:2019
- 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
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Liquid Gas Membrane is suitable for damp proofing, gas proofing and waterproofing a variety of substrates including concrete, flush pointed masonry and metal. It can be used above and below ground level including retaining walls, cast concrete, precast concrete and steelwork. The product is ideal for complex detailing and difficult to reach areas.

The liquid is suitable for use on insulated concrete formwork (ICF) as a priming solution to provide the optimum surface prior to the application of Visqueen Self Adhesive Membrane, Visqueen Gas Resistant Self Adhesive Membrane or VisqueenPro Detailing Strip.

The product is not designed as a decorative coating.

System components

- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Find your local stockist



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Storage and handling

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

To avoid the risk of spillage, always store and transport in a secure upright position. The product has a minimum shelf life of 12 months.

Keep the container closed when not in use.

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

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.

The liquid is suitable for use on insulated concrete formwork (ICF) as a priming solution to provide the optimum surface prior to the application of Visqueen Self Adhesive Membrane, Visqueen Gas Resistant Self Adhesive Membrane or VisqueenPro Detailing Strip. For this specific application, apply one coat at a coverage rate of at least 0.25 litre/m^2 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/m^2 and the second at a coverage of at least 0.7 litre/m^2. Allow each coat to dry and cure through before applying the next. Total coverage for these applications is at least 1.2 litre/m^2.

For gas proofing applications apply three coats at a coverage rate of at least 0.8 litre/m^2/coat. Allow each coat to dry and cure through before applying the next. Total coverage for this application is at least 2.4 litre/m^2.

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 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 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.

In all cases, 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 5°C before the membrane has dried. Temperatures below 5°C will render the products unfit for use.

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Visqueen Liquid Gas Membrane

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. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

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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/m^2/d/atm	<40
Adhesion to concrete		N/mm^2	1.1
Water penetration		3 bar pressure	Pass
Elongation	ASTM D2370	%	>100
Tensile strength	ASTM D2370	N/mm^2	11

Health and safety information

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

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About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Structural Waterproofing | Gas Protection | Damp Proof Membrane | Tapes | Damp Proof Course | Stormwater | Vapour Control

Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.

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