

Visqueen CM8 Membrane

Features & benefits

- Prime HDPE - robust studded floor membrane
- Multi-use - suitable for new, existing and retrofit build projects
- Large roll formats with flanged edges for jointing - quick and easy to install
- BBA certified - third party certification
- Type C membrane (drained protection) - part of a cavity drainage system in accordance with BS 8102:2022
- Sealed system - meets the requirements for radon protection

Product description

Visqueen V20 Floor Membrane is a 1.0mm thick high density polyethylene (HDPE) profiled sheet with approximate 20 mm high studs. The membrane is supplied in large format roll of 2m x 20m.

Approvals and standards

- Third party certification - BBA Certificate No. 21/5867
- CE Mark EN 13967
- Suitable for use as part of a Type C (drained) waterproofing protection system to BS 8102:2022
- Quality Management System ISO 9001:2015

Usage

Type C waterproofing is defined in BS 8102: 2022 as 'drained protection'. This is achieved by the incorporation of a drained cavity within the basement structure. The basement walls and floor must provide enough primary resistance to water ingress to ensure the cavity only accepts a controlled amount of water or dampness. Water is collected in the cavity, between the external wall/floor and an internal lining (cavity drain membrane), and diverted to a suitable drainage point.

The membrane can be used as an internally applied horizontal or vertical membrane as part of a Visqueen Cavity Drain System. The system is typically used for internally tanking basements, sub structures and retaining walls within new, existing and retrofit build projects. The system can also be used for heritage buildings, conservation projects, vaulted ceiling, basements and tunnels.

When used as part of a Visqueen cavity drain system, Visqueen V20 Floor Membrane is suitable for structures requiring Grades 1, 2 or 3 waterproofing protection.

The cavity drain system can also be used in conjunction with Visqueen Type A or Type B waterproofing protection systems where combined protection is required.

System components

- Visqueen Cavity Drain Membrane System Components
- Visqueen CM Anti-Lime Sealer

Storage and handling

Visqueen V20 Floor Membrane should be stored upright, under cover in a dry clean environment and in its original packaging.

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

Preparation

All surfaces should be firm, sound and free from obstructions which would hamper free drainage. Defects that might result in unacceptable water ingress in the floor structure should be repaired before the system is installed. Any embedded timber must be removed as these materials can deteriorate over time in the presence of moisture.

All surfaces should be pre-treated with Visqueen Anti-Lime Coating to reduce the risk of leaching of free lime or mineral salts and to avoid the obstruction of the drainage system. Surfaces should be smooth and free from sharp protrusions.

Visqueen V20 Floor Membrane can be cut with a retractable safety knife or robust scissors.

Installation

Horizontal Floor Applications

Begin at one side of the room and unroll the Visqueen V20 Floor Membrane against the wall membrane with the studs facing down onto the floor and cut the membrane to the desired length or width of the floor (like laying a carpet). Repeat this exercise till all the lengths/widths required to cover the floor area have been cut allowing for a two-stud membrane overlap.

Overlaps

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The individual sheets of membrane that have now been cut, are joined together with Visqueen Sealing Rope. The sealing rope is positioned between the two stud formations along the edge of the membrane to be overlapped. Remove the release paper. Lift the next sheet of membrane over the two interlocking studs and press the overlapping membrane down onto the sealing rope. Foot pressure can be applied by sliding the sole of the foot over the membrane joint to ensure that the membranes are fully bonded.

Service Entry Seals

Where there are services such as pipes, ducting or steel stanchion that protrude through walls or floors, the membrane should be carefully cut and trimmed around the obstacle and sealed using sealing rope and Visqueen CD Corner Strip material.

Vertical Wall Installation

Installation of the Visqueen V20 Floor Membrane when used vertically, is ideally commenced at the top of the construction with studs against the wall. Fixings are made through the membrane into 10mm holes drilled through the studs to a minimum depth of 75mm (using a 10mm diameter masonry drill bit). Visqueen Masonry Plugs, to which Visqueen Sealing Rope has been applied around the rim, are inserted into the holes and tapped flush with the membrane (use punch where necessary). The sealing rope forms a sealing gasket between the plug and membrane. A minimum 5 fixings per square metre are required, and should be staggered. Fixings are also required immediately either side of the laps. Overlaps should always be positioned in front of, and overlapping, the previously installed membrane width.

Floor/Wall Junctions

Seal junctions of Visqueen V20 Floor Membrane and Visqueen V8 Wall Membrane with Visqueen CD Corner Strip. The vertical and horizontal membranes should be butt jointed at the base of the wall. Visqueen CD Corner Strip should be folded in half along the length of the piece to be used to create the 90 degree angle. Once correctly aligned, carefully pull off the backing paper and press firmly onto the floor and wall membranes.

Water Management

A drainage system of suitable capacity should be provided to collect and dispose of the infiltrating water. The system must be maintainable and inspected at regular intervals. Please contact Visqueen Technical Support team for further information.

Usable temperature range

It is recommended that Visqueen V20 Floor Membrane and system components should be installed above 5°C.

Additional information

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.

Property	Test standard	Result
Dimensions	N/A	2m x 20m
Stud height (approx)	N/A	7-8mm
Membrane colour	N/A	Translucent off white
Mass	N/A	0.5 kg/m ²
Water void volume	N/A	4.95 l/m ²
Compressive strength	BS EN 25619-2	180 kN/m ²
Tensile strength MD	BS EN 12311-2	416 N
Tensile strength CD	BS EN 12311-2	488 N
Watertightness @ 60 kPa for 24 hours	BS EN 1928	Pass
Resistance to static loading	BS EN 12730	>20 kg
Reaction to fire	BS EN 13501-1	Class E
Radon diffusion coefficient (Visqueen CM8HD Membrane only) - membrane without joints	ISO/TS 11665-13, method C	3.5 x 10 ⁻¹² m ² /s
Radon diffusion coefficient (Visqueen CM8HD Membrane only) - membrane with joints	ISO/TS 11665-13, method C	1.7 x 10 ⁻¹² m ² /s

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Health and safety information

Please refer to Visqueen V20 Floor Membrane material safety datasheet (MSDS)

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](tel:+44(0)3332026800) 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

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.



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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.
