

Visqueen V20 Floor Membrane

Features and 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 8102:2009
- 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 8102:2009
- Quality Management System ISO 9001:2015

Usage

Type C waterproofing is defined in BS 8102: 2009 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.

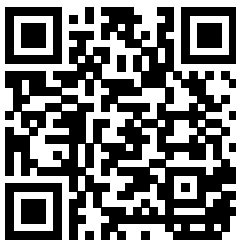
When used as part of a Visqueen cavity drain system, Visqueen V20 Floor Membrane is suitable for structures requiring Grades 1, 2 or 3 waterproofing protection.

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 System Components

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Visqueen V20 Floor Membrane

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

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 and 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.

Visqueen V20 Floor Membrane

| Property | Test method | Units | Compliance criteria | Value or statement |
|--|-------------|-------------------|---------------------|--------------------|
| Dimensions | | m | | 2 x 20 |
| Stud height | | mm | | 20 |
| Mass | EN 1849-2 | kg/m ² | -10%/10% | 0.95 |
| Resistance to static loading | EN 12730 | kg | 20kg | Pass |
| Drainage capacity (approx.) | | l/m ² | | 13 |
| Max compressive strength | | kN/m ² | | 240 |
| Resistance to deformation under load (max) @ 50kN/m2 | | % | | 20 |
| Watertightness | EN 1928 | - | 60kPa | Pass |
| Durability after artificial ageing | EN 1847 | - | Pass/Fail | Pass |
| Durability against chemicals | EN 1847 | - | Pass/Fail | Pass |
| Resistance to tearing (min.) | EN 12310-1 | N | > | 350 |
| Water vapour transmission properties | EN 1931 | Sd | -25%/25% | 550 |
| Resistance to Impact method A | EN 12691 | m | MDV | 0.85 |
| Reaction to fire | EN 13501-1 | | Class | F |
| Joint Resistance | EN 12317-1 | N | > | 35 |
| Tensile properties - MD | EN 12311-2 | N/50 mm | > | 530 |
| Tensile properties - CD | EN 12311-2 | N/50 mm | > | 500 |

Health and safety information

Please refer to Visqueen V20 Floor 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



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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.