

Visqueen EcoMembrane DPM

Features and benefits

- BBA certified - third party accreditation
- Manufactured using a minimum 85% recycled polyethylene
- Range of thicknesses available

Product description

Visqueen EcoMembrane DPM is manufactured from a minimum 85% recycled polyethylene. The product is black or blue in colour and available in three thicknesses: 0.25mm (4m x 25m) , 0.3mm (4m x 25m) and 0.5mm (4m x 12.5m). All rolls are supplied multi folded.

Please note Ecomembrane is NOT accredited for radon applications. Please use either Visqueen Ultimate RadonBlok 600 or Visqueen Radon R400 Membrane.

Approvals and standards

- Third party accreditation (BBA 94/3009)
- 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 EcoMembrane DPM is suitable for use in ground floor constructions, positioned above or below the structural floor, to protect buildings against moisture from the ground.

The product is not intended for use where there is a risk of hydrostatic pressure or accredited for radon applications.

Suitability for use of 0.25mm (1000 gauge) Visqueen EcoMembrane DPM should be confirmed and approved by all stakeholders prior to use.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

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Storage and handling

Visqueen EcoMembrane DPM should be stored horizontally, under cover in its original packaging.

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

Preparation

Visqueen EcoMembrane DPM should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as voids or protrusions.

The membrane can be cut with a sharp retractable safety knife or robust scissors.

Installation

Visqueen EcoMembrane DPM should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by a minimum of 150mm, bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Pro Single Sided Tape.

Damp proofing seals should be formed around all service entry points. Visqueen Preformed Top Hat Units are available for sealing service entry pipe junctions. The base of the top hat and the upstand should be bonded using Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Pro Single Sided Tape. The upstand should be secured with the supplied jubilee clip. Alternatively Visqueen Pro Detailing Strip can be used to seal service entry pipe detailing.

Forming an effective barrier to damp with the membrane may give rise to complex three-dimensional detailing. To simplify complex or awkward junctions e.g. internal and external corners Visqueen Preformed units are available. Alternatively Visqueen Pro Detailing Strip can be used to seal awkward junctions.

If the membrane is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen Pro Double Sided Jointing Tape and sealed with Visqueen Pro Single Sided Tape. Alternatively a patch can be formed using Visqueen Pro Detailing Strip and lapped at least 150mm beyond the extents of the puncture.

The membrane should be covered immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying the final floor covering.

When reinforced concrete is to be laid over the membrane the wire reinforcements and spacers must be prevented from puncturing the membrane. Where there is a potential risk of damage, the membrane should be covered with Visqueen TreadGuard protection, screed, or other approved protection material before positioning the reinforcement.

In areas where high levels of settlement are anticipated, Visqueen Pre Applied Membrane should be considered.

Usable temperature range

It is recommended that Visqueen EcoMembrane DPM and all associated system components should not be installed below 5°C.

Additional information

To assist build sequencing, Visqueen Zedex CPT High Performance DPC is available for damp protection through masonry wall constructions.

Please note EcoMembrane DPM is NOT accredited for radon applications. Please use either Visqueen Ultimate RadonBlok600 or Visqueen Radon R400 Membrane. For additional detailing information or for further guidance on the selection of the most appropriate thickness of membrane, 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 | Compliance criteria | 0.25mm | 0.3mm | 0.5mm |
|--|------------------------|---------------------|---------------------|--------|--------|----------|
| Dimensions | | | | 4mx25m | 4mx25m | 4mx12.5m |
| Straightness | BS EN 1848-2 | - | Pass/Fail | Pass | Pass | Pass |
| Tensile strength - MD | BS EN 12311 | N/mm ² | >MLV | 13 | 13 | 15 |
| Tensile strength - TD | BS EN 12311 | N/mm ² | >MLV | 13 | 13 | 15 |
| Tensile elongation - MD | BS EN 12311 | % | >MLV | 400 | 400 | 400 |
| Tensile elongation - TD | BS EN 12311 | % | >MLV | 400 | 400 | 400 |
| Joint strength | BS EN 12317-2 | N | >MLV | 136 | 169 | 256 |
| Watertightness at 2kPa for 24 hours | BS EN 1928 | - | Pass/Fail | Pass | Pass | Pass |
| Resistance to impact | BS EN 12691 | mm | >MLV | 200 | 200 | 200 |
| Durability (artificial ageing) | BS EN 1296 and EN 1928 | - | Pass/Fail | Pass | Pass | Pass |
| Durability chemical resistance | BS EN 1847 | - | Pass/Fail | Pass | Pass | Pass |
| Resistance to tearing (nail shank) MD | BS EN 12310-1 | N | MLV | 140 | 175 | 270 |
| Resistance to tearing (nail shank) TD | BS EN 12310-1 | N | MLV | 140 | 175 | 270 |
| Length | BS EN 1848-2 | m | -10%/+10% | 25 | 25 | 12.5 |
| Water vapour transmission - resistance | BS EN 1931 | MNs/g | MDV | 586 | 682 | 1390 |
| Water vapour transmission - permeability | BS EN 1931 | g/m ² /d | MDV | 0.36 | 0.32 | 0.16 |
| Visible defects | BS EN 1850 -2 | - | Pass/Fail | Pass | Pass | Pass |
| Width | BS EN 1848-2 | m | -2.5%/+2.5% | 4m | 4m | 4m |
| Length | BS EN 1848-2 | m | -10%/+10% | 25 | 25 | 12.5 |

Health and safety information

Refer to Visqueen EcoMembrane DPM safety datasheet (SDS).

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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 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 two day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.