Technical Datasheet

Visqueen High Performance Damp Proof Membrane

Features & benefits

- BBA certified - third party accreditation
- Supplied centre folded - reduces the risk of cracks in screed and limits creases
- Dual jointing methods - lap joints can be taped or heat welded
- Sulphate resistant - when installed with heat welded joints, suitable for use in DS classifications 1-5 in accordance with ACEC

Product description

Visqueen High Performance Damp Proof Membrane is a robust co-polymer thermoplastic membrane, 0.5mm thick, yellow in colour and supplied 4m x 12.5m in a center folded roll.

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 High Performance Damp Proof Membrane is suitable for use in ground floor constructions, positioned above or below the structural floor, to protect buildings against moisture from the ground.

The membrane has been independently tested for sulphate resistance. When installed with heat welded joints, the membrane is suitable for use in DS classifications 1-5 in accordance with Aggressive Chemical Environment for Concrete (ACEC) classification.

The product is not intended for use where there is a risk of hydrostatic pressure.

System components

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

Storage and handling

Visqueen High Performance Damp Proof Membrane 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 High Performance Damp Proof Membrane 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.

Hand rollers are required during lap joint formation and sealing membrane detailing. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Consult the project specification to ensure the correct method of lap joint formation for the project is followed (welded or taped).

Rolls of tape should be kept in a warm, dry location prior to use to ensure the tape is workable and can be more easily applied.

Installation

Visqueen High Performance Damp Proof Membrane should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape.

Alternatively lap joints can be heat welded and this method of sealing laps must be employed when the membrane

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is being used to protect against sulphates. When hot air hand welding the lap joints, the joint should be overlapped by approximately 100mm and an approximate 35mm weld is normally maintained. During hand welding, the lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved.

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 VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape. The upstand should be secured with the supplied jubilee clip. Alternatively VisqueenPro Detailing Strip or Visqueen NF-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 VisqueenPro Detailing Strip or Visqueen NF-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 VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape. Alternatively a patch can be formed using VisqueenPro Detailing Strip or Visqueen NF-Detailing Strip lapped at least 150mm beyond the extents of the membrane 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 laid over the membrane the reinforcements and spacers must be prevented from puncturing the membrane. Where there is potential risk for 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 High Performance Damp Proof Membrane and all associated system components should not be installed below 5°C.

Additional information

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

For additional detailing 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.

Property	Test method	Units	Compliance criteria	Value or Statement
Visible defects	BS EN 1850 -2	-	Pass/Fail	Pass
Length	BS EN 1848-2	m	-10%/+10%	12.5
Width	BS EN 1848-2	m	-2.5%/+2.5%	4
Straightness	BS EN 1848-2	-	Pass/Fail	Pass
Thickness	BS EN 1849-2	mm	-12%/+12%	0.5
Tensile strength - MD	BS EN 12311	N/mm²	>MLV	16
Tensile strength - TD	BS EN 12311	N/mm²	>MLV	16
Tensile elongation - MD	BS EN 12311	%	MLV	400
Tensile elongation - TD	BS EN 12311	%	MLV	400
Joint strength	BS EN 12317-2	N	MLV	200
Watertightness to 2kPa for 24 hours	BS EN 1928	-	Pass/Fail	Pass
Resistance to impact	BS EN 12691	mm	MLV	200
Durability (artificial ageing)	BS EN 1296 and BS EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	BS EN 1847	-	Pass/Fail	Pass

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Resistance to tearing (nail shank) CD	BS EN 12310-1	N	MDV	300
Resistance to tearing (nail shank) MD	BS EN 12310-1	N	MDV	300
Resistance to static loading	BS EN 12730	kg	MLV	20
Water vapour resistance	BS EN 1931	MNs/g	MDV	1445
Water vapour permeability	BS EN 1931	g/m²/d	MDV	0.12
Water vapour resistance factor	BS EN 1931	u	MDV	615,000
Equivalent air layer thickness Sd	BS EN 1931	m	MDV	290
Reaction to fire	BS EN 13501-1	Class	MDV	F
Chemical resistance - hydrolysis under acid conditions method A (10% sulphuric acid)	EN 14414 – modified for welded joint sample using EN 12317-2, shear of joints	-	Aged sample within ±25% of control sample: Pass/Fail	Pass (8.9%)

Health and safety information

Refer to Visqueen High Performance Damp Proof 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'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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