

Pre Applied Membrane CE Mark to EN 13967

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- **New and improved polymer technology giving superior performance**
- **Extremely flexible thus improving installation times**
- **A robust pre applied waterproofing & radon barrier membrane**
- **Suitable for both damp proofing and tanking applications**
- **Greater water vapour barrier properties**
- **Exceptional puncture resistance - No protection required**

Description

The new and improved Visqueen Pre Applied Membrane is a robust, flexible and high performance waterproofing and radon barrier membrane. Utilising Visqueen's Advanced Membrane Technology, the membrane is more flexible, does not require protection and provides greater barrier properties from water vapour. The membrane has a textured face on one side designed to aid adhesion to cast concrete. The membrane is 1mm thick and supplied in roll form 2.44m x 41m.

The membrane should be installed grey and textured side up.

Application

Visqueen Pre Applied Membrane is suitable for the following applications

- Waterproofing applications to BS8102:2009 type A
- Slab edges and permanent shutter work
- Tanking below ground structure e.g. lift pits
- Radon areas to BR211:2015

The membrane can withstand normal on-site foot traffic and the activities associated with the laying of a reinforced concrete slab without the need for additional membrane protection. In addition, when applied with welded joints the membrane can provide protection against hydrostatic water pressure.

System Components:

- Visqueen GX Double Sided Bonding Tape
- Visqueen Gas Resistant Lap Tape
- Visqueen GX Top Hat Units
- Visqueen Retaining discs and nails
- Visqueen Detailing strip

Please note that the membrane can be welded as a preferred alternative to using tapes.

Installation

Visqueen Pre Applied Membrane and system components should be installed in accordance with the recommendations of the relevant codes of practice and industry guidance, such as CP102:1973 and BS8102:2009

The membrane should not be taken through any masonry wall. The relevant Visqueen damp proof or gas proof course should be taken through and extended beyond the wall by a minimum of 250mm where it can be jointed to the membrane.

When installed horizontally, the membrane should be applied to a smooth concrete blinding or alternatively sand blinding. The surface should be free from loose aggregates or other sharp protrusions. Any standing water should be removed to prevent potential lap joint contamination. The membrane should be laid with the textured surface facing away from the blinding

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Formwork installation

When installed vertically, Visqueen Pre Applied Membrane should be pre applied to temporary formwork or the adjoining structure. Visqueen Retaining Discs are available to provide a means for securing the leading edge of the membrane to the temporary formwork. The membrane should be installed with the textured surface facing the formwork.

Using oval nails, Visqueen Retaining Discs should be mechanically fixed, at maximum 400mm centre, to the internal face of the shuttering. Using a suitable power tool and 6mm drill bit to create a pilot hole in the membrane, the Visqueen Pre Applied Membrane should be secured over the protruding section of the retaining disc. The top edge of the membrane should be trimmed to approximately 20mm below the top edge of the slab.

Once the concrete has set, the oval nails should be removed by pulling through from the external face of the shuttering. When the temporary formwork is removed the Visqueen Retaining Discs should be visible on the external (smooth) face of the membrane. Continuity of the membrane system with the damp proof course is maintained using Visqueen Self Adhesive Membrane (see Visqueen Typical Details).

Waterproofing

When a combined waterproofing system is required Visqueen recommend a suitable drainage system should be designed and incorporated. Visqueen Cavity Drain System provides a type C internal protection and information is available on this [link](#). Please contact Visqueen to ensure correct specification for your project support including design and membrane selection 0333 202 6800.

When using Pre Applied Membrane in an external waterproofing application hydrostatic pressure can be relieved by using Visqueen Protect&Drain. The design and installation should be in accordance with BS8102:2009 – please visit <http://www.visqueenbuilding.co.uk/products/external-water-management/protect-%26-drain>

Lap joints

Visqueen Pre Applied Membrane has been designed to exhibit superior welding properties using hot edge, hot air, or extrusion welding. Therefore onsite welding of membrane lap joints is recommended for all applications and must be employed when hydrostatic water pressure is present.

Where required, Visqueen's network of preferred installers can install the membrane and offer the client a fully warranted system.

Tape Joints: Alternatively, when Visqueen Pre Applied membrane is used for damp proofing and sites where hydrostatic water pressure, lap joints can be bonded with Visqueen GX Double Sided Jointing Tape and then sealed with Visqueen Gas Resistant Lap Tape. When using tapes to secure laps, the overlap should be minimum 150mm and the membrane surfaces to be jointed should be dry and free from contamination such as dust or sand. Once the tapes are applied, the lap should be well rolled with firm pressure to ensure complete adhesion and continuity.

Service penetrations, corners and junctions

All service pipe penetrations should be fully sealed using welded membrane or Visqueen GX Preformed Top Hat Units. The base and collar of the preformed unit should be bonded using Visqueen GX Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Lap Tape. The collar should be secured with a mechanical fastening.

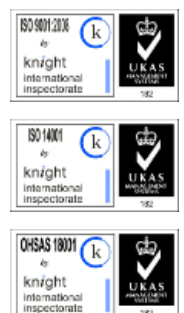
To ensure system integrity, all internal and external corners should be provided with either welded corners or Visqueen Preformed Units bonded to the membrane using Visqueen Double Sided Jointing Tape and sealed with Visqueen GR Single Sided Lap Tape. Complex or awkward junctions should be sealed using either welded membrane or Visqueen Detailing Strip.

Precautions

When the weather is cold, Visqueen jointing tapes and self-adhesive materials should be kept in a warm, dry place until needed. Unless welded, membrane installation is not recommended below 5 °C.

To avoid high linear expansion when installed in hot weather, the membrane should be covered immediately after installation with concrete or screed.

Storage and Handling



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Visqueen Pre Applied membrane is classified as non-hazardous when used in accordance with the relevant British Standards. The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils. The product should be stored in a warm dry environment and not exposed to long periods of sunlight.

A roll weighs 97 kilos and should be handled with care following on site health and safety procedures.

Technical Data and CE Mark

Visqueen Pre-Applied Membrane complies with the requirements and clauses of EN 13967 - Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic rubber basement tanking sheet - Definitions and characteristics.



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Product Data

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Characteristic	Test method	Units	Criteria	Result
Colour				Black/Grey
Weight		kilos		97
Length	EN 1848-2	m	-0/+10%	41
Width	EN 1848-2	m	-0/+10%	2.44
Thickness	EN 1849-2	mm	+/-10%	1

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Characteristic	Test method	Units	Criteria	Result
Tensile Strength - MD	EN EN12311	N/mm2	MDV	23.6
Tensile Strength - TD	EN EN12311	N/mm2	MDV	22.4
Tensile Elongation - MD	EN EN12311	%	MDV	701
Tensile Elongation - TD	EN EN12311	%	MDV	706
Joint Strength	EN12317-2	N	MDV	598
Watertightness to 60 kPa	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	MDV	750
Durability watertightness after heat ageing	EN 1296	-	Pass/Fail	Pass
Durability watertightness against chemicals	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	750
Resistance to tearing (nail shank) TD	EN 12310-1	N	MDV	720
Resistance to static loading	EN 12730	Kg	>MLV	20
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	2142
Water vapour transmission - permeability	EN 1931	g/m2/d	MDV	0.063



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Appendix A

About Visqueen

Visqueen is the market leader in the manufacture and supply of structural waterproofing and gas protection systems. Visqueen offers the complete package – a proven, reliable range backed by a technical support service that goes unmatched in the market - everything you would expect from a reputable and ethical company.

Complete Range, Complete Solution

- Structural Waterproofing
- Damp Proof Course
- Damp Proof Membranes
- Gas Protection and Gas Venting
- Vapour Control Layers
- Stormwater Protection

Download Library

- Technical Datasheet
- Standard Details
- Technical Service
- Visqueen Gas Protection Brochure
- NBS Clauses
- BBA Certificates
- Material Safety Datasheets
- Specification Guide

Find your local stockist

Search our directory of Visqueen specification [Specialist Centres](#) to locate your nearest Visqueen Partner.

Technical support throughout your project

We are specialists in our field and can help you specify the correct solutions with the necessary performance levels, in accordance with building regulations.

- Nationwide site support team
- Specification advice
- Installation guidance & project sign off
- System design including CAD details

CPD Seminars and Training Academy



Gas Protection CPD

The specification, technical design, and installation of gas protection systems, enabling the sustainable regeneration of brownfield sites.



Structural Waterproofing CPD

The specification, technical design, and installation of structural waterproofing systems for protection against water and damp ingress in both above and below ground projects.



Visqueen Training Academy

We are now able to offer exclusive in depth training opportunities on a wide variety of Visqueen products at our Training Academy.



Visqueen Special Projects

We provide high-level expertise, comprehensive support and experience in all types of waterproofing and gas protection.

VISQUEEN

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