

## Pre Applied Membrane CE Mark to EN 13967

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- A robust pre applied waterproofing membrane
- Suitable for both damp proofing and tanking applications
- Specified for major projects throughout the UK

### Description

Visqueen Pre Applied Membrane is a robust, high performance waterproofing geomembrane. The membrane has a textured face on one side designed to aid adhesion to cast concrete. The membrane is 1.5mm thick and supplied in roll form 2.95m x 25m.

### Application

Building Regulations require that the ground floors of a building should adequately protect the building, and people who use the building, from the harmful effects caused by ground moisture. The instances of traditional damp proof membranes being damaged by following trades or the process of positioning spacers and reinforcement prior to laying a reinforced concrete slab, has resulted in the need for a robust membrane system that greatly reduces the risks of future damp ingress due to mechanical damage during the construction phase.

Visqueen Pre Applied Membrane is designed to provide a robust solution to preventing the ingress of damp and hydrostatic water pressure (when welded)

Unlike the smooth surfaced traditional damp proof membranes, the textured surface of Visqueen Pre Applied Membrane aids adhesion to cast concrete. 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.

Visqueen Pre Applied Membrane can be used in a variety of applications including:

- Heavy duty reinforced concrete slabs.
- Slab edges and permanent shutter work.
- Tanking below ground structures e.g. lift pits.

### 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

A suitable drainage system should be designed and incorporated in accordance with the requirements of BS8102:2009.

To avoid linear expansion due to temperature change the membrane should not be taken through any masonry wall. The relevant Visqueen damp 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 continuous surface of preferably float finished concrete blinding or alternatively sand blinding. The surface should be free from loose aggregates or other sharp protrusions. Any standing

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water should be removed to prevent potential lap joint contamination. The membrane should be laid with the textured surface facing away from the blinding.

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

Using oval nails, Visqueen Retaining Discs should be mechanically fixed, at maximum 400mm centres, 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 shuttering 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 GR Self Adhesive Membrane (see Visqueen Typical Details).

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

Alternatively, when Visqueen Pre Applied Membrane is used for damp proofing and sites where hydrostatic water pressure, lap joints can be bonded with Visqueen Double Sided Jointing Tape and then sealed with Visqueen GR Single Sided 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 Preformed Top Hat Units. The base and collar of the preformed unit should be bonded using Visqueen Double Sided Jointing Tape and sealed with Visqueen GR Single Sided 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

Visqueen Pre Applied Membrane is classified as non-hazardous when used in accordance with the relevant codes of practice and industry guidance.

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.**



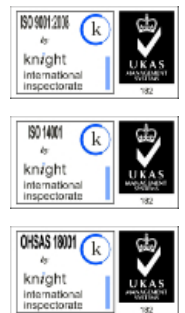
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### Technical Data and CE Mark

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.

Notified certification body SKZ – TeConA GmbH (identification no. 1213) performed the initial inspection of the manufacturing plant and of factory production control (FPC) and the continuous surveillance, assessment and evaluation of FPC and issued the certificate of conformity of the FPC no. 5773.



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### Product Data

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heading	Characteristic	Test method	Units	Compliance criteria	Value or Statement
	Length	EN 1848-2	m	-0%/+10%	25
	Width	EN 1848-2	m	-0%/+10%	2.95
	Thickness	EN 1849-2	mm	-10%/+10%	1.5
	Mass	EN 1849-2	g/m2	-10%/+10%	1440
	Tensile Strength - MD	EN EN12311	N/mm2	>MLV	27
	Tensile Strength - CD	EN EN12311	N/mm2	>MLV	29
	Tensile Elongation - MD	EN EN12311	%	>MLV	820
	Tensile Elongation - CD	EN EN12311	%	>MLV	900
	Joint Strength	EN12317-2	N	>MLV	446
	Watertightness 60kPa	EN 1928	-	Pass/Fail	Pass
	Resistance to impact	EN 12691	mm	>MLV	1500
	Low temperature flexibility	EN 1109	oC	-15	Pass
	Durability against heat ageing	EN 1296	-	Pass/Fail	Pass
	Durability Chemical Resistance	EN 1847	-	Pass/Fail	Pass
	Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	346
	Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	353
	Resistance to static loading	EN 12730	Kg	>MLV	Pass at 20
	Water vapour transmission - resistance	EN 1931	MNs/g	MDV	2883
	Water vapour transmission - permeability	EN 1931	g/m2/d	MDV	0.07
	Reaction to Fire	EN 13501-1	Class	MDV	F



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### Appendix A



#### Visqueen Building Products

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.

#### System Accessories

To ensure full waterproofing protection please use the following certified system components:

- Visqueen High Performance (HP) Tanking Primer
- Visqueen TreadGUARD1500
- Visqueen Protect&Drain
- Visqueen Top Hat Unit

#### Downloads Library

- Technical Datasheet
- Declaration of Performance
- Visqueen's Guide to CE Marking

#### Find your local stockist

Search our directory of Visqueen specification Stocking Centres to locate your nearest Visqueen Partner.

#### Distributor Support

Our specification Stocking Centres can access a free library of sales support tools, bespoke catalogues and more, [click here](#).

#### 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

