

Visqueen TorchOn Tanking Membrane

Features and benefits

- BBA certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Heat bonded application - no jointing tapes required
- Heat bonded application - ideal for cold and damp conditions

Product description

Visqueen TorchOn Tanking Membrane is a modified bitumen rubber tanking membrane. It has a sanded finish to the top surface and a heat dispersible film on the underside. The roll is supplied 1m x 8m.

Approvals and standards

- Third party accreditation (BBA 14/5121)
- Suitable for use as a Type A Barrier Membrane (Tanking Membrane) to BS 8102:2022
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Conforms to the specification requirements of BR 211:2023
- UKCA UKNI CE to EN 13969:2004
- 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 TorchOn Tanking Membrane is a heat bonded product, suitable for use as a Type A Barrier Membrane (Tanking Membrane) for above and below ground applications e.g. basements, retaining walls and lift pits.

When applied as a two layer system the product is suitable for waterproofing podium decks.

It is also suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g. methane, carbon dioxide and radon.

The membrane can be applied to a variety of substrates including concrete, blockwork, brickwork and steelwork, in both vertical and horizontal applications.

The membrane can be used to achieve waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

System components

- Visqueen HP Tanking Primer, 5L
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen Protect&Drain
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen Pile Cap Sealer, 25kg
- Visqueen IGW5 and IGW10 Waterstops

Visqueen TorchOn Tanking Membrane

Storage and handling

Visqueen TorchOn Tanking Membrane should be stored vertically under cover in its original packaging.

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

Preparation

All surfaces to which Visqueen TorchOn Tanking Membrane are to be applied should be free from cavities or projections, have a smooth finish, be dry and free from dust, loose particles and frost. The surface should then be sealed using Visqueen HP Tanking Primer and allowed to dry thoroughly.

When applying to blockwork or brickwork the joints must be flush pointed. In demanding applications the masonry face must be rendered prior to applying the membrane.

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

Installation

Visqueen TorchOn Tanking Membrane side and end laps to be minimum 150mm. All lap joints should be fully bonded; a bead of bitumen should extrude from the joint.

The membrane must be fully bonded to the prepared substrate using the gas torch-on technique. For horizontal work, an approximate 500mm neck tube and 50mm diameter propane gas burner should be used and for vertical and detailing work, an approximate 200mm neck tube and 35mm diameter propane gas burner is appropriate. During bonding, ensure that a constant flow of bitumen is maintained across the full width of the roll and that a bead of bitumen is extruded from each edge demonstrating that a correct seal has been obtained.

When applying horizontally, unroll and position the membrane. Roll back half way and starting from the middle of the roll, progressively roll forward whilst activating the coating on the underside of the roll. Repeat for the second half of the roll. Subsequent rolls should be set out with staggered end laps.

When applying vertically, cut the membrane to the appropriate length and position at the base of the wall. Progressively torch apply to the substrate working up the wall. Complete the vertical application by torch bonding the remainder of the membrane to the horizontally bonded membrane.

At 90 degree changes of direction a sand cement fillet should be formed prior to the membrane installation.

Watertight seals should be formed around all service entry points. Visqueen Pro Detailing Strip should be used for sealing service entry pipes.

If the membrane is punctured or perforated, a patch of the same material should be lapped and bonded at least 150mm beyond the extents of the puncture.

The membrane should always be fully protected immediately after it is installed. When used externally on a retaining wall, the membrane should be protected from backfill with Visqueen TreadGUARD 1500. Alternatively, where external drainage is also required the membrane can be protected with Visqueen Protect&Drain.

When forming day joints on a vertical substrate, the upper edge of the membrane should be adequately secured e.g. bonding onto the top of the retaining wall, or if terminated on a vertical face the upper edge should be secured with Visqueen Fixing Strip and Visqueen Fixings Pins for Masonry.

Installation must ensure continuity of the tanking system around obstructions such as stanchions and pile caps and the formation of a minimum of 150mm bonded lap with the damp proofing system above ground level.

Usable temperature range

It is recommended that Visqueen TorchOn Tanking Membrane and all associated system components should not be installed below 5°C. However, due to the heat bonded installation method the system is more tolerant in cold weather working.

Additional information

Where concrete construction joints occur Visqueen IGW Waterstop system should be incorporated

Where wall ties penetrate the membrane, seal with Visqueen Axiom UniSeal

When waterproof concrete is required, or for additional information, contact Visqueen Technical Services +44 (0) 333 202 6800.



Visqueen TorchOn Tanking Membrane

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	Result
Visible defect	BS EN 1850 -2	-	Pass/Fail	Pass
Length	BS EN 1848-2	m	-5%/+5%	8
Width	BS EN 1848-2	m	-5%/+5%	1
Mass	BS EN 1849-2	kg/m ²	+/-10%	4.5
Straightness	BS EN 1848-2	-	Pass/Fail	Pass
Thickness	BS EN 1849-2	mm	+/-10%	3.5
Watertightness to 60kPa for 24 hours	BS EN 1928	kPa	MDV	Pass
Durability (artificial ageing)	BS EN 1296 and BS EN 1928	-	Pass/Fail	Pass
Durability (heat ageing)	BS EN 1296	-	Pass/Fail	Pass
Water vapour transmission properties	BS EN 1931	kg/ (m ² s)	+/-20%	5.79 x 10 ⁻⁶
Resistance to static loading	BS EN 12730	kg	MLV	20
Reaction to fire	BS EN 13501-1		Class	F
Flexibility at low temperature	BS EN 12317-1	°C	MDV	-15
Tensile properties - MD	BS EN 12311-1	N/50mm	+/-20%	900
Tensile properties - CD	BS EN 12311-2	N/50mm	+/-20%	900
Tensile elongation - MD	BS EN 12311-1	%	+/-20%	35
Tensile elongation - CD	BS EN 12311-2	%	+/-20%	35
Methane permeability	ISO 15105-1	mls/m ² /d/atm	MDV	<40

Health and safety information

Refer to the Visqueen TorchOn Tanking Membrane 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.