

TorchOn Tanking Membrane

BBA cert 14/5121

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nbsPlus

- **Robust tanking membrane**
- **Ideal for cold weather application**
- **Suitable for gas protection applications**
- **Torch bonded laps provide a homogenously sealed junction**
- **Used in basements, car parks, lift pits, reinforced concrete slabs and retaining walls**

Description

Visqueen TorchOn Tanking Membrane is a robust waterproofing membrane, used for heavy duty tanking and gas proofing applications. It can be used both vertically and horizontally above and below ground level to prevent the ingress of water.

Visqueen TorchOn Tanking Membrane should be used with Visqueen HP Tanking Primer on touch dry concrete. Substrates should be primed with Visqueen HP Tanking Primer prior to application. Visqueen TreadGUARD1500 should be used horizontally or for external vertical applications Visqueen Protect&Drain should be used to protect the membrane from backfill or site traffic.

Application

Visqueen TorchOn Tanking Membrane should be applied as a two layer system when used as a tanking system for below ground structures where high levels of hydrostatic (water) pressure exist in conjunction with an internal waterproof render in accordance with BS8102: 2009 type A structures. Visqueen TorchOn Tanking Membrane can be used as a single layer system when used as a horizontal damp proofing membrane or in low risk situations. All laps should be a minimum of 150mm. The loading screed or floor slab which is laid on top of the membrane should be adequate to resist any hydrostatic water pressure.

Additional System Components

- **Visqueen HP Tanking Primer (5L tin)** – for preparation of touch dry concrete and masonry surfaces prior to application of the membrane. Coverage rate on concrete is about 6 - 8m² per litre. Drying time is 2-8 hours depending on temperature and ventilation.
- **Visqueen TreadGUARD1500** - for protecting the membrane from damage during backfilling, etc
- **Protect&Drain** - for protecting the membrane from damage during backfilling, etc
- **Visqueen Zedex DPC Jointing Tape** for bonding Visqueen TreadGUARD1500 to Visqueen TorchOn Tanking Membrane.

Installation

Preparation

Ensure that the surface to be treated is smooth, clean, dry, free from loose particles and is frost free. Concrete and renders should be completely cured. Unrendered masonry must be flush pointed. Installation should be in accordance with the recommendation of BS 8102:2009. A suitable drainage system should be designed and incorporated in accordance with the requirements of BS8102:2009.

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Priming

All surfaces should be sealed using Visqueen HP Tanking Primer applied by brush, broom or roller. On concrete or masonry surfaces, coverage rate is about 6 - 8m² per litre. Ensure the primer is fully dry before application of the membrane. Drying time is 1 - 5 hours depending on temperature and ventilation. The newly applied primer should be protected from contamination.

Angles and corners

Provide a 50mm – 75mm sand/cement fillet. Reinforce all changes of direction with a 350mm strip of Visqueen TorchOn Tanking Membrane applied equidistant across the junction.

Setting out

When applying a two layer system, the membrane should be set out with staggered laps between first and second layers.

Lap joints

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

Equipment and bonding

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.

Horizontal bonding

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.

Vertical bonding

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.

Protection and support

In external tanking situations or where there is a risk of damage, Visqueen TreadGUARD1500 should be positioned over the membrane. When bonding of the boards is required, attach with strips of Visqueen Zedex DPC Jointing Tape. Internal vertical tanking requires the construction of an internal leaf of masonry to provide support for the membrane. A cavity of a minimum of 50mm must be left which is progressively filled with sand/cement mortar as work proceeds. When the vertical membrane terminates, the uppermost end should be batten fixed or sealed into a chase. Internal horizontal tanking requires loading with sand/cement screed sufficient to resist hydrostatic water pressure.

Continuity

Installation must ensure continuity of the tanking system around obstructions such as stanchions and pile caps and the formation of a minimum of 100mm bonded lap with the damp proofing system above ground level.

Storage and handling

Visqueen TorchOn Tanking Membrane must be stored on end and kept dry. The membrane is classified



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as non-hazardous when used in accordance with the relevant British Standard Code of Practice. Visqueen HP Tanking Primer should be stored in its original unopened container in a cool, dry area. Suitable Personal Protective Equipment (PPE) should be worn when using these materials and suitable fire fighting equipment must be available. Adequate ventilation must be ensured at all times during application. Ensure that hazardous ground gas levels are suitably diluted to prevent risk of explosion during membrane application. This must be addressed as part of the Hot Works Permit and Method Statement procedures. See health & safety datasheets available at www.visqueenbuilding.co.uk.

Technical Data and CE Mark

Visqueen TorchOn Tanking Membrane complies with the requirements and clauses of EN 13969 - Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets.

MDV = Manufacturer's Declared Value

MLV = Manufacturer's Limiting Value



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Product Data

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| heading | Characteristic | Test method | Units | Compliance criteria | Value or statement |
|--------------------------------------|----------------|---------------------|------------------------|---------------------|-------------------------|
| Visible defect | | EN 1850 -2 | - | Pass/Fail | Pass |
| Length | | EN 1848-2 | m | -5%/+5% | 8 |
| Width | | EN 1848-2 | m | -5%/+5% | 1 |
| Mass | | EN 1849-2 | kg/m ² | +/-10% | 4.5 |
| Straightness | | EN 1848-2 | - | Pass/Fail | Pass |
| Thickness | | EN 1849-2 | mm | +/-10% | 3.5 |
| Watertightness 60kPa | | EN 1928 | - | Pass/Fail | Pass |
| Durability (artificial ageing) | | EN 1296 and EN 1928 | - | Pass/Fail | Pass |
| Durability (heat ageing) | | EN 1296 | - | Pass/Fail | Pass |
| Water vapour transmission properties | | EN 1931 | kg/ (m ² s) | +/-20% | 5.79 x 10 ⁻⁶ |
| Resistance to static loading | | EN 12730 | Kg | >MLV | >20 |
| Reaction to fire | | EN 13501-1 | | Class | F |
| Flexibility at low temperature | | EN 12317-1 | oC | MDV | -15 |
| Tensile properties - MD | | EN 12311-1 | N/50mm | +/-20% | 900 |
| Tensile properties - CD | | EN 12311-2 | N/50mm | +/-20% | 900 |
| Tensile Elongation - MD | | EN 12311-1 | % | +/-20% | 35 |
| Tensile Elongation - CD | | EN 12311-2 | % | +/-20% | 35 |



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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

