

Tanking Protection System Components

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Visqueen Tanking Protection

Visqueen Building Products is recognised as a market leader in the development, production and supply of high quality construction related products for waterproofing below ground (tanking). The following components are used within the Visqueen Self Adhesive Membrane, Gas Resistant Self Adhesive Membrane, TorchOn Tanking and Urban Drainage Geomembrane (UDG) systems to ensure effective bonding, detailing and protection. Separate datasheets relating to the system membranes are available.

System Components

Visqueen Rigid Preformed Pipe Sleeve (Top Hat) Unit

Description

A black, rigid polyethylene preformed pipe sleeve unit, available for either 110mm or 135mm external diameter pipes.

Application

Pipe sleeve for effective waterproofing protection around service pipe penetrations.

Installation

Ensure surfaces are clean and dry. Dress the tanking membrane to the base of the pipe. Apply Visqueen Zedex DPC Jointing Tape to the underside of the unit flange and the circumference of the pipe. Remove tape release paper, slide the unit over the pipe and bond to the membrane and pipe (Visqueen TorchOn Tanking requires the sanded surface to be prepared by pre-torching the surface of the membrane). Apply pressure to the jointed area to ensure adhesion. Apply a 200mm strip of the tanking membrane equidistant over the unit flange/membrane lap. Apply pressure to ensure adhesion. Apply a 200mm strip of the tanking membrane around the unit upstand/pipe lap. Apply pressure to ensure adhesion and secure with a mechanical fastening clip. When using a gas torch, ensure the flame is directed away from the pipe and pipe sleeve unit during installation.

Visqueen Flexible Preformed Pipe Sleeve (Top Hat) Unit

Description

A black, flexible polyethylene preformed pipe sleeve unit, supplied to suit pipe external diameter as required.

Application

Pipe sleeve for effective waterproofing protection around service pipe penetrations. Easy to trim on site. Ideal for pipes positioned close to each other or pipes tight against internal walls.

Installation

Ensure surfaces are clean and dry. Dress the tanking membrane to the base of the pipe. Apply Visqueen Zedex DPC Jointing Tape to the underside of the unit flange and the circumference of the pipe. Remove tape release paper, slide the unit over the pipe and bond to the membrane and pipe (Visqueen TorchOn Tanking requires the sanded surface to be prepared by pre-torching the surface of the membrane). Apply pressure to the jointed area to ensure adhesion. Apply a 200mm strip of the tanking membrane equidistant over the unit flange/membrane lap. Apply pressure to ensure adhesion. Apply a 200mm strip of the tanking membrane around the unit upstand/pipe lap. Apply

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pressure to ensure adhesion and secure with a mechanical fastening clip. When using a gas torch, ensure the flame is directed away from the pipe and pipe sleeve unit during installation.

Visqueen Flexible Internal and External Preformed Corner Units

Description

Black, flexible polyethylene preformed corner units, supplied 150mm x 150mm x 150mm.

Application

Preformed units for effective waterproofing of internal and external corners when using Visqueen self adhesive tanking membranes.

Installation

Ensure surfaces are clean and dry. Apply Visqueen Zedex DPC Jointing Tape to the underside of the unit and bond into position. Lap the self adhesive tanking onto the unit and apply pressure to ensure adhesion.

Visqueen Heavy Duty Protection Board

Description

A 3mm thick, flexible and rot proof bituminous board, supplied in 1m x 2m sheets.

Application

For protection of tanking membranes against damage from backfill, following trades, and the process of positioning spacers and reinforcement prior to laying a reinforced concrete slab.

Installation

In horizontal applications, boards are loose laid and closely butt jointed. To prevent lateral movement the boards should be over-taped with Visqueen Girth Jointing Tape applied equidistant over the junction. Ensure surfaces are clean and dry prior to application of tape. Apply pressure to the tape to ensure adhesion. In vertical applications, boards should be strip bonded to the tanking membrane with Visqueen Zedex DPC Jointing Tape and the joints over-taped with Visqueen Girth Jointing Tape applied equidistant over the junction. Ensure surfaces are clean and dry prior to application of tape. Apply pressure to the tape to ensure adhesion.

Visqueen UDG Protection Board

Description

A 3mm thick, flexible and rot proof board, supplied in 1.22m x 2.44m sheets.

Application

For protection of urban drainage geomembranes or as medium duty protection for Visqueen tanking membranes.

Installation

In horizontal applications, boards are loose laid and closely butt jointed. To prevent lateral movement the boards should be over-taped with Visqueen Girth Jointing Tape applied equidistant over the junction. Ensure surfaces are clean and dry prior to application of tape. Apply pressure to the tape to ensure adhesion. In vertical applications, boards should be strip bonded to the membrane with Visqueen Zedex DPC Jointing Tape and the joints over-taped with Visqueen Girth Jointing Tape applied equidistant over the junction. Ensure surfaces are clean and dry prior to application of tape. Apply pressure to the tape to ensure adhesion.

Visqueen Zedex DPC Jointing Tape

Description

A black, double sided butyl mastic tape, supplied in 100mm x 15m rolls.

Application

Double sided adhesive tape for a variety of bonding applications including adhering protection boards to



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Installation

Ensure surfaces are clean and dry. Apply tape, remove tape release paper and form bond as required. Apply pressure to the jointed area to ensure adhesion. When the weather is cold, store tape in a warm, dry place until required. Installation is not recommended below 5C.

Visqueen Zedex DPC Fixing Strip

Description

A semi-flexible black plastic strip, 2m long and 30mm wide. The strip is pre-drilled at approx 150mm centres (14 holes per strip).

Application

For securing the top edge of vertically applied tanking membranes to masonry units or concrete.

Installation

Bond the vertically applied tanking membrane. Position the Visqueen Zedex DPC Fixing Strip approximately 5mm below the top edge of the tanking membrane and secure in position with Visqueen Zedex DPC Fixing Pins for Masonry to provide a permanent mechanical fixing.

Visqueen Zedex DPC Fixing Pins for Masonry

Description

A grey plastic fixing pin with a central nail. Hammering the central nail into the body of the fixing expands the fixing securing it in the drilled hole. Supplied in a box of 50 pins.

Application

For securing the top edge of vertically applied tanking membranes to masonry units or concrete.

Installation

Bond the vertically applied tanking membrane. Position the Visqueen Zedex DPC Fixing Strip approximately 5mm below the top edge of the tanking membrane.

At one end of the Fixing Strip, drill a 6mm diameter hole (through the tanking) into the substrate, to a depth of 55mm, using the hole in the Fixing Strip as a guide. Insert the Fixing Pin through the Fixing Strip into the drilled hole and secure in position by tapping the central nail into the body of the fixing using a flat faced hammer. The barbed portion of the Fixing Pin will expand securing the Fixing Strip and tanking membrane in position. Repeat for each hole of the Fixing Strip.

Visqueen HP Tanking Primer

Description

Visqueen High Performance Tanking Primer is a black, elastomeric bituminous priming solution designed to prepare surfaces prior to the application of Visqueen self adhesive and torch applied damp proofing and tanking membranes. The product is manufactured in the UK and supplied in 5L tins.

Uses

Visqueen High Performance Tanking Primer can be used to prepare a variety of substrates including metal, concrete, brickwork, blockwork and stonework. It significantly improves the bond of Visqueen self adhesive and torch applied damp proofing and tanking membranes and helps to ensure a long-term watertight finish.

It is suitable for green concrete, damp surfaces or substrate temperatures below 5C.

Installation

Visqueen High Performance Tanking Primer can be applied by brush or roller. Care should be taken to prevent splashes as primer will permanently stain porous surfaces. Surfaces must be smooth, clean, and free from contaminants such as dust, dirt, grease, lichen, frost, etc. Substrate temperature must be greater



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than -4C. Coverage rates on porous surfaces e.g. concrete is 6–8m./litre. Visqueen High Performance Tanking Primer will dry in 1–5 hours depending upon temperature, surface porosity and ventilation. Wait until primer is tack free. The primer will be resistant to light rainfall almost immediately after application. Allow to dry fully before application of waterproofing membrane. Avoid pouring the primer directly onto a horizontal surface; use a dip tray. The primer should not be allowed to puddle during application as this will increase drying time. All tools can be cleaned after use with white spirit. Priming should be limited to an area that can be covered with membrane in 24 hours. Areas that accumulate significant amounts of dust or dirt must be re-primed before membrane application. When used on green concrete or damp surfaces, moisture may become trapped under the membrane which may result in blistering, particularly in warm, sunny weather. To reduce this risk, the membrane should be covered as soon as possible after application.



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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](#)
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- [Stormwater Protection](#)

Download Library

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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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