

VX90 Waterstop



- High performance sodium bentonite waterstop
- Part of Visqueen's Pile Cap waterproofing system
- An active reinforcement strip at internal 90° angles
- Unique swelling properties stops water from all directions
- Delay swell properties aids installation times

Description and Application

Visqueen VX90 Waterstop is a special formulated sodium bentonite hydrophilic waterstop designed to act as an active reinforcement strip at internal 90° angles – changes of direction - and to seal around pile cap penetrations. The unique properties allow the waterstop to swell in all directions of the water unlike other waterstops which swell in a uniform direction. The product is triangular in shape and black in colour.

Visqueen VX90 Waterstop also contains a special additive that delays the swelling process. This greatly assists installation times during periods of rain.

The product form is triangular, black in colour and is 1m linear metre in length and packed 18 per box (total length per box 18m).

Visqueen VX Waterstop system

- Visqueen VX25 Waterstop – for horizontal and vertical joints
- Visqueen VX90 Waterstop – for 90o internal angles and seal around pipe penetrations including pile caps
- Visqueen Waterstop Mastic – secures VX Waterstops in vertical and pile cap applications
- Visqueen Pile Cap Sealer – a special formulated cementitious compound for waterproofing pile caps

Installation

GENERAL

All construction should conform to the Building Regulations, Codes of Practice and British Standards in current use at the time the building is being constructed. In particular it is recommended that reference is made to BS 8102: 2009.

The confining concrete must be placed within 5 days of installation of the waterstop profile.

Where required cut the coils with a sharp blade or utility knife to fit coil ends together.

PREPARATION

Construction joint surfaces should be clean and free of standing water, dust or debris.

Changes of direction – see detail x

1. Clean surface by means of jet wash, grit blasting or scabbling
2. Firmly place Visqueen VX90 Waterstop into the foot of the wall
3. Butt joint and knead lengths together to form a continuous layer
4. Cover with Visqueen Pre Applied Membrane

Pile cap sealing – High Risk

see detail x

- Clean surface by means of jet wash, grit blasting or scabbling.

VX90 Waterstop

Page 2

- Apply Visqueen Pile Cap Sealer to the full area of the pile cap including 100mm vertically by:
Mechanically mix Visqueen Pile Cap Sealer at an approximate ratio of 4:1 with clean water by volume by adding the powder into the water.
Coverage rate is 1.5kg/m² to obtain a 3-5mm thickness. This can be achieved by applying one coat or two (2 x 0.75 kg/m²). The second coat should be applied whilst the first coat is still green.
1 tub of Pile Cap Sealer covers c. 16m²
- Roll out Visqueen Pre Applied Membrane to the base of the ground pile cap. Do not cover the pile cap with the membrane.
- Ensure the product is well ventilated for at least 3 days. Protect the coating against excessive fast evaporation in hot conditions or drying winds by mist spraying regularly.
- Apply Visqueen Waterstop Mastic to the vertical and horizontal as per detail. 1 x 10 kg tub covers 200g per one linear metre.
- Place Visqueen VX90 Waterstop securely and press firmly around the full circumference of the pile cap. Butt joint and knead lengths together to form a continuous layer.

Pile cap sealing – Low Risk

see detail x

Please follow the steps as above but eliminate steps 2 and 4 as there is no requirement for Visqueen Pile Cap Sealer.

Storage and Handling

Store in a warm and dry environment.

Ensure waterstops are wrapped in polythene before use. The waterstop will harden if exposed to air over short periods.

Coils of Visqueen VX90 Waterstop are individually wrapped in polythene, prior to packaging, to retain moisture within the product and placed in boxes. Boxes must be stored on pallets but pallets must not be stacked one on top of another. Once opened the pallets must be stored under cover or covered with a protective weatherproof sheet to prevent rain damage.

Surplus material may be re-used provided it is immediately rewrapped and stored appropriately.



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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](#)
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- [Gas Protection and Gas Venting](#)
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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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