

Visqueen Axiom UniSeal

Features and benefits

- Agreement certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Tough rubber like cure - perfect for detailing irregular profiles and penetrations
- Multiple applications - ideal for waterproofing blockwork and brickwork masonry substrates
- Unique curing properties - creates a fillet in just one pass, with no complicated build-ups
- Barrier properties - radon resistant

Product description

Visqueen Axiom UniSeal is a two component system both supplied in the same tin with an overall product weight of 15.6kg. The first component (Part A) is a bitumen-extended polyurethane fluid (15kg). The second component (Part B) is an accelerator hardener (0.6kg).

Approvals and standards

- Third party accreditation (BDA certificate BAB-18-077-S-A-UK)
- Suitable for use as a Type A Barrier Membrane (Tanking Membrane) to BS 8102: 2022
- Conforms with the specification requirements of NHBC Chapter 5.4
- Conforms to the specification requirements of BR 211:2023
- Quality Management System ISO 9001:2015

Usage

Visqueen Axiom UniSeal is specially formulated for waterproofing below ground structures. It is suitable for complex shapes, irregular profiles and angle fillets. It can be used to seal pipe penetrations and steel stanchions and around steel reinforcement. It can also be used on various surfaces including steel, timber, plywood, bitumen membranes, concrete and masonry.

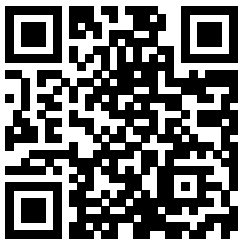
Visqueen Axiom UniSeal is a high performance liquid waterproofing membrane which meets the requirements of BS8102:2022 for Grades 1, 2 and 3, and is classified as a fully bonded Type A membrane.

The product is not designed for use as a decorative finish and is not suitable for long periods of exposure to sunlight.

System components

- Visqueen Protect&Drain
- Visqueen TreadGUARD 1500, 1m x 2m

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NEW

VISQUEEN

CLASS B FR
VAPOUR CHECK

- Visqueen Class B FR Vapour Check is a fire resistant AVCL (air and vapour control layer)
- Surpasses all national Building Regulations and Standards for air and vapour control layers
- Fire classification B - s1, d0
- Competitive, efficient and fully tested system (including tapes) for fire resistance

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Visqueen Axiom UniSeal

Storage and handling

As from 24 August 2023 REACH restrictions require that workers handling diisocyanates complete adequate training before use. Online training courses are available at <https://isopa-aisbl.idloom.events/index/safe-use-of-diisocyanates-training-selection-en>

Visqueen Axiom UniSeal should be stored upright, undercover and in its original packaging. Store away from any sources of ignition in a well ventilated space at temperatures between 5°C and 30°C.

To avoid the risk of spillage, always store and transport in a secure upright position. The unopened product has a minimum shelf life of 12 months. Once opened the product must be used within one hour.

Care should be taken when handling the product in line with current manual handling regulations. Use in a well ventilated space away from any sources of ignition. Keep the container closed when not in use.

Preparation

Visqueen Axiom UniSeal should be applied to substrates that are smooth, clean, dry and free from frost, dust, laitences or loose material. Any surface contamination e.g. oil, paint, mortar spots, fungal growth, etc must be removed. All substrate cracks or surface irregularities must be repaired and filled prior to product application.

Mix using a variable speed paddle mixer. Do not part mix.

1. Open Part A and take out Part B (small tin)
2. Break seal of Part B and replace lid so it is ready for use
3. Stir Part A for at least 30 seconds, moving the paddle from bottom to top
4. Pour full contents of Part B (small tin) into Part A
5. Stir for further 4 minutes increasing speed as Part B is worked in
6. Once mixed and stirred, use within one hour

During mixing move paddle up and down within the product and in a clockwise and anti-clockwise direction. Scrape any liquids from the sides and continue stirring. Only install when thoroughly mixed.

Prior to installation, a primer is not required.

Once mixed UniSeal must be installed within one hour. The product cannot be resealed for later use.

Installation

The following tools are suitable for installation; scraper, gauging trowel, steel plasterers trowel and plasterers hawk. Tools can only be cleaned by scraping off the excess material. Using the appropriate tools, apply onto the substrate using the same principle as plastering. Areas that require fillets or complex detailing should be completed using an appropriate width scraper or gauging trowel.

Angle fillet coverage - in fillet applications the material should be at least 20mm thickness in the horizontal and vertical surfaces. Coverage is approximately 78 liner metres per 15.6kg tin.

Render coat coverage - when used as a 2.5mm thick render coat (minimum thickness), coverage is approximately 6.24m².

Once mixed, the product must be applied within one hour. The product cannot be resealed for later use.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the cured membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc. The membrane should be protected from backfilling using Visqueen Protect&Drain or Visqueen TreadGuard 1500.

Usable temperature range

Visqueen Axiom UniSeal should be installed above 5°C. The surface temperature should also be above 5°C.

Additional information

Once opened and mixed the liquid cannot be resealed and used at a later time. The product must be used within an hour of opening. Use Visqueen Axiom UniSeal in well ventilated areas.

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.

Visqueen Axiom UniSeal

	Units	Part A	Part B
Axiom UniSeal	kg	15	0.6
Approximate coverage rates	Thickness	Coverage	
Angle fillet	20mm	78m	
Full coverage - render coat	2.5mm	6.24m ²	
Property	Method	Unit	Value
Average thickness		mm	2.5
Water vapour diffusion resistance factor	BS EN1931	u	9000
Water vapour diffusion resistance	BS EN1931	sD	22.5 -45
Water vapour diffusion resistance, calculated range	BS EN1931	MNs.g-1	112.5 - 225
Radon permeability (t= 20 mm layer thickness)	SP. Method 3873	m ² /s	10 ⁻¹²
Tensile strength at break (23°C)	BS EN ISO 5278	N/mm ²	4
Elongation at break (23°C)	BS EN ISO 5278	%	>500
Tack free time (25°C & 55% RH)		h	0.5-1
Service temperature		°C	- 40 to 80
Hardness	BS EN ISO 8689	Shore A	25

Health and safety information

Please refer to Visqueen Axiom UniSeal part A and B 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 PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

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 three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.