Visqueen Axiom Guard PRO

Features & benefits

- Agrement certified - third party accreditation
- Type A Barrier Membrane - resistant to ground water in accordance with BS 8102:2022
- UV resistant when used with Axiom Guard PRO Topcoat - suitable for exposed applications
- Fully bonded system - seamless membrane, self terminating at the perimeter of the installation
- Moisture curing - can be applied to damp substrates and resistant to rain once applied
- Versatile - ideal for large areas and complex detailing

Product description

Visqueen Axiom Guard PRO is a high performance, polyurethane liquid-applied membrane.

The product is dark grey in colour and supplied in 15kg drums.

Approvals and standards

- BBA third party accreditation (23/6868)
- Suitable for use as a Type A Barrier Membrane to BS 8102: 2022
- 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 Axiom Guard PRO is suitable for waterproofing below ground substructures including podium decks, retaining walls and lift pit walls. The product can be applied to a variety of substrates including cast concrete, precast concrete, flush pointed blockwork, flush pointed brickwork, and steelwork. It can be applied in both vertical and horizontal applications. The membrane can be used to achieve one form of waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

The product is also suitable for damp proofing applications including concrete floors, flush pointed masonry walls and wet rooms. The product can be applied to a variety of substrates including those listed above, and wet room tile backing boards.

When used in conjunction with Visqueen Axiom Guard PRO Topcoat, Visqueen Axiom Guard PRO is suitable for waterproofing balconies, terraces, walkways, bund walls, surfaces that are subject to total permanent immersion in water, and some flat roofing applications.

Regarding external fire spread, when tested to DD CEN/TS 1187 : 2012, Test 4, a system comprising12mm calcium silicate board, a coat of Axiom Guard PRO and an overcoat of Axiom Guard PRO Topcoat, achieved a classification of B ROOF (t4) under BS EN 13501-5 : 2005.

To discuss and confirm suitability for your specific application, please contact Visqueen Technical Services on +44 (0) 333 202 6800.

System components

- Visqueen Axiom Guard PRO Matting
- Visqueen Axiom Guard PRO Topcoat

Storage and handling

Visqueen Axiom Guard PRO 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 5ºC and 30ºC.

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.

Use in a well ventilated space away from any sources of ignition. Keep the container closed when not in use.

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

Preparation

Ensure the substrate is smooth, clean and free from frost, dust, laitance or loose material. The substrate can be dry or damp but not wet. Any surface contamination e.g. oil, paint, mortar snots, fungal growth, etc must be removed. All substrate cracks or surface irregularities must be repaired and filled prior to product application.

Fresh concrete should be cured for minimum 14 days.

Visqueen Axiom Guard PRO typical coverage is approx. 7.5 - 10m² per 15kg drum (approx. 1.5kg/m² - 2.0kg/m²). Coverage is expressed as a range as it varies depending on substrate condition, porosity and whether the matting is used during installation.

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To avoid excessive consumption on porous substrates, apply a thin layer of Visqueen Axiom Guard PRO to seal the substrate, and allow to dry. Coverage for this sealing layer is approximately 30 - 50m²/drum.

The product is installed using 100mm solvent resistant short nap rollers for detailing areas and a 225mm solvent resistant short nap rollers with an extension handle for the main area. Rollers are not reusable and must be disposed appropriately after use.

Where practical, it is recommended to undertake detailing areas first and follow with the main horizontal and/or vertical areas. For installation to vertical substrates in excess of 1m high, contact Visqueen Technical Services on +44 (0) 333 202 6800 for additional guidance.

Installation

Open the Visqueen Axiom Guard PRO drum and mechanically stir the contents at a slow speed for two minutes to ensure that all components are fully mixed.

Option 1: Wet-on-wet installation.
Visqueen Axiom Guard PRO can be used straight from the drum. Apply a generous coat (approx. 80% of overall coverage) of Visqueen Axiom Guard PRO onto the substrate. Without delay, embed and dry roller the Visqueen Axiom Guard PRO Matting into the liquid product until the liquid is drawn through, then immediately apply a further coat of liquid product (approx. 20% of overall coverage) ensuring the matting is fully embedded and coated. Avoid any pinholes in the coating or ruckles in the matting. Matting overlaps to be minimum 50mm.

Option 2: Two coat installation.
Visqueen Axiom Guard PRO can be used straight from the drum. Apply two coats of Visqueen Axiom Guard PRO onto the substrate each at coverage rates of 1.0kg/m². Allow the first coat to fully cure (approx. 24 hours) before application of the second coat. The second coat should be applied no later than 48 hours after the first coat. Avoid any pinholes in the layers of coating.

The whole area to be waterproofed must be coated to form a continuous seamless membrane.

Membrane surface drying time will be approx. 2 - 8 hours depending on ambient temperature and ventilation, and fully cured in approx. 24 hours. Do not walk on the membrane until fully cured.

Where the membrane is to be left permanently exposed to sunlight, UV resistance must be provided. Apply a coat of Visqueen Axiom Guard PRO Topcoat once the membrane is fully cured and no later than 48 hours after curing. For installation of Visqueen Axiom Guard PRO Topcoat, see separate datasheet.

Where the membrane is to receive pedestrian traffic, in the specific areas where the anti-slip surface is required, apply an additional coat of Visqueen Axiom Guard PRO Topcoat once the previous coatings are fully cured and no later than 48 hours after curing, and whilst the Topcoat is still wet, broadcast kiln dried silica sand into the surface. For installation of Visqueen Axiom Guard PRO Topcoat, see separate datasheet.

Usable temperature range

Visqueen Axiom Guard PRO should be installed within the following temperature range; ambient temperature and substrate temperature should be minimum 5°C and not exceeding 30°C.

Additional information

Where substructure cast in situ concrete construction joints occur, Visqueen IGW Waterstop system should be incorporated. When water resistant concrete is required contact Visqueen Technical Services +44 (0) 333 202 6800.

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.

Property	Value	Method	Result
Drum size	15kg		
Product colour	Dark grey		
Typical coverage per drum (approx)	7.5 - 10m²	ASTM D2196-86, at 25°C	150-250
Membrane surface drying time (approx)	2 - 8 hours	ASTM D1475 / EN-ISO 2811, at 20°C	0.98
Membrane curing time (approx)	24 hours		
Typical application rate (approx)	1.5kg/m² - 2.0kg/m²	ASTM D412 / EN-ISO-527-3	350 (35)

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Water tightness to BS EN 1928:2000 Method A	Pass @ 60kPa	ASTM D412 / EN-ISO-527-3	> 150
External fire spread classification to BS EN 13501-5 : 2005	B ROOF (t4)	ASTM D1640	> 4
Axiom Guard adhesion to Primer	mPa	ASTM D1640	> 5
Radon permeability	m²/s	K124/02/95	7.9 x 10^{-11}

Health and safety information

Refer to the Visqueen Axiom Guard PRO safety datasheet (SDS)

About Visqueen

Visqueen is a leading provider of construction membrane technologies and design-based solutions for ground gas, structural waterproofing, damp proofing and fire protection.

We offer complete support at every stage of the specification, including the supply chain process. As the UK's principal technical authority, we are best placed to ensure that the principal designer and contractor specify the most technically suited, durable, and competitive solution to guarantee their project is protected for the lifetime of the building.

Visqueen is at the forefront of advanced membrane technology and innovation in the construction industry, earning the trust and loyalty of specifiers throughout the UK and Europe.

For more information, visit visqueen.com or contact our sales office at +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Passive Fire Protection | Gas Protection | Damp Proof Membrane | Air and Vapor Control | Stormwater | Damp Proof Course | Temporary Protection

Visqueen Technical Support

Visqueen offer a comprehensive full nationwide technical support. Our team of CSSW qualified technical support managers provide on site design-based solutions for specifiers, contractors and builders merchants, and will ensure that from design stage to installation the project is fully risk assessed and the specification is approved by all stakeholders.

Our Technical Office, can design, prepare and manage CAD detailing, together with assisting in quantity take offs, while offering advice on technical installations and product selection.

Competency & Design

Visqueen promotes competency in building design by ensuring that its technical team possesses the necessary skills, knowledge, experience, and ethical practices. The company adopts the "golden thread of information," ensuring all project data is digitally secure and accessible throughout a building's lifecycle. This approach aligns with the Building Safety Act and aims to foster accountability and compliance with evolving regulations, providing clients with confidence in the safety and reliability of their projects.

Visqueen CPD Seminars

Visqueen's CPD Seminars offer insights into Building Regulations, Standards, and industry guidance related to damp proofing, hazardous ground gas protection, and structural waterproofing. These one-hour seminars are tailored for construction design professionals and delivered by our Technical Support Managers. Visit our website to book a free CPD.

Visqueen Contract Design Services

Visqueen Contract Design Services offers a bespoke design service led by our team of Certified Surveyors in Structural Waterproofing (CSSW), providing experienced and specialised waterproofing design expertise for complex projects. We provide comprehensive support throughout the entire project, ensuring that all work meets the requirements of warranty providers and adheres to the highest standards of quality, reliability and current

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legislation.

Visqueen Training Academy

Based at our Derbyshire facility, the Visqueen Training Academy offers a variety of training programs across the UK. These include one-day product awareness sessions for distributors and builders' merchants, and intensive two-day courses for hands-on product installation training. Contact us for more information.

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