



# AXIOM GUARD

## Liquid Waterproofing

### Features & Benefits

- No mixing required - use straight from the tin
- Excellent UV resistance for exposed applications
- Formulated grade for below ground applications
- Fast curing, elastic & flexible at extreme temperatures
- two colour coats ensures no missed patches

### Description

Visqueen Axiom Guard is a unique single component polyurethane liquid membrane incorporating an accelerator that upon contact with humidity cures rapidly to give a continuous fully bonded waterproofing coating.

Surface coverage is approximately 1.5kg/m<sup>2</sup> therefore. The product is available in 15 kilo (1 tin overs 10m<sup>2</sup>) tins in two options:

- Visqueen Axiom Guard H+ for horizontal surfaces.
  - Visqueen Axiom Guard V+ specially formulated for vertical surfaces.
- Visqueen recommend 2 coats in this application therefore to aid installation we offer 2 colours – white and grey. The use of a two colour system allows the easy identification of any areas that have been missed with the second coat.

### Applications

- External Tanking, basements, substructures
- Retaining walls
- Superstructures

### Surfaces

- Concrete
- Flush pointed smooth brick work
- Steel
- Timber
- ICF Formwork

Visqueen Axiom Guard is used where a high performance tanking liquid waterproofing membrane is required in accordance with BS8102 – Grades 1, 2 and 3 apply. It is classified as a fully bonded Type A membrane. Axiom Guard Primer is used to seal porous or contaminated surfaces, and to aid adhesion of the Visqueen Axiom Guard.

### System Components

- Visqueen Axiom Guard Primer - to prime substrates prior to use of Visqueen Axiom Guard membrane
- Visqueen Protect&Drain - a drainage board for protecting the membrane during backfilling operations in external tanking applications, and also promoting drainage

- of water away from the structure
- Visqueen Self Adhesive Membrane - a bitumen based waterproofing membrane
  - Visqueen Treadguard1500 - protection board
  - Visqueen Zedex CPT DPC - a high performance cavity tray damp-proof course for waterproofing continuation
  - Visqueen Axiom CreteSeal - a one component concrete expansion joint sealant
  - Visqueen VX25 Waterstop – prevents the ingress of water through cast in-situ concrete construction joints

**Surface Preparation**

All surfaces should be smooth, clean, dry and free from frost, oil, grease, condensation and other contamination. Fill surface irregularities with a suitable filler such as 3:1 mortar mix.

Application temperature should be above 5oC although the product has been proved to work at 0oC.

Gloves and suitable PPE should be worn prior to application.

The product requires no agitation, stirring or dilution. Use straight from the tin.

**Coverages**

Visqueen recommends the coverage rates for the following surfaces:

**Concrete horizontal surfaces**

- Axiom Primer using 200g/m<sup>2</sup> (4L tin covers 20m<sup>2</sup>) depending on the porosity of surface. Drying time 2 hours.
- Axiom Guard H+ using 1.5kg/m<sup>2</sup>. 1 coat is recommended with 3 hour minimum drying time between coats if additional coat are required.

**Concrete, Metal & Masonry vertical surfaces**

- Axiom Primer using 200g/m<sup>2</sup> (4L tin covers 20m<sup>2</sup>) depending on the porosity of surface.
- Axiom Guard V+ using 1.5kg/m<sup>2</sup>. 2 coats required with 3 hour minimum drying time between coats.

	WEIGHT	DRY TIME	
Visqueen Axiom Guard H+	15 kilos	3 hours	
Visqueen Axiom Guard V+	15 kilos	3 hours	
Visqueen Axiom Guard Primer	4 kilos	2 hours	
APPLICATION	GUARD H+	GUARD V+	PRIMER
Horizontal per kg/m <sup>2</sup>	1.5		0.2
Horizontal per tin/m <sup>2</sup>	10		20
Vertical per kg/m <sup>2</sup>		1.5*	0.2
Vertical per kg/m <sup>2</sup>		10*	
* 2 coats required			

### Product & Performance Data:

PROPERTY	UNITS	METHOD	SPECIFICATION
In liquid form (before application): 90% dry matter in Xylol			
Viscosity (BROOKFIELD)	cP	ASTM D2196-86, at 25 C	3500 - 5500
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, at 20 C	1.3 - 1.4
Flash point	centigrade	ASTM D93, closed cup	42
Tack free time, at 77 F (25 C) & 55% RH	hours		02-Mar
Recoat time	hours		Jun-48
The cured membrane:			
Service temperature	centigrade		-40 to 80
Max. temperature short time (shock)	centigrade		200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
Tensile strength at break at 23 C	Kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN - ISO - 527 - 3	65 (6,5)
Percent elongation at 23 C	%	ASTM D412 / EN - ISO - 527 - 3	more than 400
Water vapour transmission	gr/m <sup>2</sup> .hr	ASTM E96 (Water Method)	0.8
Tensile set (after 300% elongation)	%	ASTM D412	less than 3%
QUV Accelerated Weathering Test (4hr UV, at 60 C (UVB-Lamps) & 4hr COND at 50 C)		ASTM G53	passed (2,000 hours)

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