



Axiom UniSeal

The ultimate high performance product for waterproofing and detailing

Product Information

- New liquid technology giving superior performance
- Perfect for detailing irregular profiles and penetrations
- Formulated for masonry applications including blockwork
- Ideal as a fillet and reinforcement material at inside corners
- Fast curing, elastic & flexible at extreme temperatures
- Compliments Visqueen's self-adhesive waterproofing membranes

Description

Visqueen Axiom UniSeal is a multi-use liquid waterproofing membrane in a two part system: the first component a bitumen-extended polyurethane fluid with a secondary part an accelerator hardener. This unique system cures rapidly to give a continuous tough rubber-like, fully bonded waterproofing coating.

Product Packaging

The 2 part system is available in one 15.6 kilos clamped tin containing:

- Part A - 15 kilos of bitumen-extended polyurethane liquid
- Part B - 600 grams of the accelerator hardener

Application

The product is specially formulated for waterproofing below ground structures in the following applications:

- Fillet and reinforcement material at inside corners.
- Detailing irregular profiles and pipe penetrations such as steel stanchions
- Waterproofing blockwork externally and internally
- Sealing steel reinforcements
- Sealing materials at terminations

Specific Approvals / Standards

- BS8102:2009 - Code of practice for protection of below ground structures against water from the ground - Grades 1, 2 and 3 apply. Classified as a fully bonded Type A membrane.
- BDA Agrément pending



Installation

Surface Preparation

All surfaces should be smooth, clean, dry and free from frost, oil, grease, condensation and other contamination. UniSeal in fillet applications should be applied prior to the application of the self-adhesive membrane.

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

Gloves and suitable PPE should be worn prior to application.

Mixing

Ratio 1:1

Mixing Installation

A variable speed mixer with paddle is required

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 secs – moving the paddle from bottom to top
4. Pour full contents of part B into A
5. Stir for further 4 mins increasing speed as part B is worked in
6. Once mixed and stirred use within 1 hour

Thoroughly mix by moving paddle up in clockwise and anti-clockwise directions. Scrape any liquids from the sides and restart stirring.



Installation

For best results Visqueen recommend applying UniSeal with a trowel.

Coverage

Visqueen recommend the following consumption/dosage:

Visqueen Axiom UniSeal	15.6 kilos Parts A + B	
Application	Approximate Coverage	15.6 kilo pack
Angle fillet	20mm	78 lin m
Penetrations: pipes, steel reinforcement	10mmx10mm	156 lin m
Penetrations:overlap	150mm x 2.5mm	40 lin m
Full coverage liquid membrane	2.5mm thick	6.24m ²

Angle Fillet

In fillet applications the material should be at least 20mm thickness in the horizontal and vertical surfaces. For 20mm in both directions you will achieve c.78 linear metres per tin (15.6L)

Penetrations

Linear bead i.e. sealing pipe penetrations or steel reinforcement. For 10mm x 10mm bead you will achieve 156 linear metres per tin (15.6L)

Penetrations

Overlap - for the 150mm wide strip at 2.5mm thickness you will achieve 40 linear metres per tin (15.6L)

Full coverage

For a full tin using 2.5mm thickness you will achieve a 6.24m². For sealing steel reinforcements a 6mm thickness with a 300mm coverage is recommended.

Important	<p>Once mixed UniSeal must be applied within one hour at normal ambient temperatures.</p> <p>Once opened and mixed the liquid cannot be resealed and used again and MUST be discarded appropriately. Touch dry should be achieved within 3 hours.</p>
External Tanking on Blockwork	<p>The horizontal sheet membrane section should be laid on a concrete blinding to project at least 300mm beyond the outer face of the structure. The base structural slabs and the walls should be formed, and the vertical Axiom UniSeal should then be applied by trowel. The membrane should then be protected from backfilling using Visqueen Protect&Drain or Treadguard1500.</p>
Internal Tanking on Blockwork	<p>A loading coat concrete should be constructed immediately after the membrane has cured. A 50mm minimum cavity should be left between the membrane and the loading skin. This cavity must be filled with sand cement mortar fill as work proceeds.</p>
Standard Details	<p>Standard details are available at: www.visqueenbuilding.co.uk/standard-details for the above applications.</p>
Storage & Handling	<p>Store the product away from any sources of ignition at temperatures between 5°C and 30°C. Visqueen Axiom UniSeal will remain in optimum condition if stored within the above temperature range in its sealed container for a minimum 12 months. Once opened use as soon as possible. To avoid the risk of spillage, always store and transport in a secure upright position.</p>
Health & Safety	<p>We strongly recommend that the MSDS is read prior to use or transportation. Visit www.visqueenbuilding.co.uk. Visqueen UniSeal is flammable and should be used in well ventilated areas away from sources of ignition. If used in closed spaces use ventilators and carbon active masks. The product can effect sensitive skins and gloves are recommended when using the product. Wash hands thoroughly at the end of each working period. Should there be contact with skin, wash immediately with soap and water or a recognised skin cleaner. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p>
System Components	<p>Visqueen Axiom UniSeal is ideally suited for use with Visqueen Self Adhesive waterproofing membranes:</p> <ul style="list-style-type: none"> ■ Visqueen Self Adhesive Membrane (SAM)- a tanking or damp proof membrane for both horizontal and vertical applications ■ Visqueen Gas Resistant Self Adhesive Membrane (GR SAM) - a tanking or damp proof membrane for both horizontal and vertical applications where bulk gases exist

Visqueen Axiom Liquid Membrane - the NEW revolutionary range in high performance waterproofing

Visqueen's new range consists of:

Visqueen Axiom Shield LAC – a high performance liquid DPM

Visqueen Axiom Guard – a one component liquid waterproofing membrane

Visqueen Axiom Guard Primer – primes and seals porous surfaces prior to use of Visqueen Axiom Guard membrane

Visqueen Axiom UniSeal – the ultimate high performance product for detailing and waterproofing

Visqueen Axiom CreteSeal – a one component concrete expansion joint sealant for Axiom Guard system

AXIOM
LIQUID MEMBRANES**VISQUEEN****Product &
Performance Data:**

Property	Units	Method	Result
Tin size - overall	Kilos		15.6
Part A -Liquid membrane	Kilos		15
Part B - Accelerator	Kilos		0.6
Colour			Black
Shelf life in optimum conditions (unopened)			12+ months
Technical Specification:			
Viscosity (Brookfield) Component A	cP	ASTM D2196-86, at 25°C	44000 - 55000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2911, at 20°C	aprox. 1
Tack free time at 77°F (25°C) & 55% RH	hours		0.5 - 1
Service Temperature	°C		-40 to 80
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	25
Tensile strength at break at 23°C	kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	40 (4)
Perent elongation at 23°C	%	ASTM D412 / EN-ISO-527-3	>500

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