Technical Datasheet

Visqueen IGW Admix

Features & benefits

- Crystalline growth - provides continuous protection for the concrete structure
- Reduces water penetration - reduced permeability when compared to an equivalent plain concrete
- Improves reinforcement protection - enhanced resistance to reinforcement corrosion when compared with an equivalent plain concrete

Product description

Visqueen IGW Admix is a crystalline waterproofing admixture powder consisting of a blend of specially selected chemicals. The Admix is suitable for CEM I (100% cement content), CEM II (up to 35% cement replacement), and GGBS (up to 70% cement replacement) mixes. When combined with ready mix concrete at batching plant, it produces a crystalline reaction which enhances water resistance and durability of the cured concrete. The product is available in a tub consisting of six 4.1 kg soluble bags and used in the ratio of 1:1 i.e. one 4.1kg bag for each 1m³ of concrete.
Visqueen IGW Admix, a crystalline waterproofing admixture powder. BBA certificate 20/5783. Suitable for use Type B structurally integral protection to BS 8102:2022

Approvals and standards

- Agrement certificated (BBA certificate 20/5783)
- Suitable for use as a Type B structurally integral protection to BS 8102:2022
- Conforms with the specification requirements of NHBC Chapter 5.4
- 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 IGW Admix is used to provide Type B watertight concrete protection in accordance with BS8102:2022. Typically the product is used in reinforced concrete basement walls and floors.

When used as a combined system in accordance with BS8102, the Type B watertight concrete is used in conjunction with a Type A barrier membrane such as Visqueen Pre Applied Membrane and/or a Type C cavity drain system such as Visqueen V8 and V20 Cavity Drain System.

System components

- Visqueen IGW5 and IGW10 Waterstops
- Visqueen Waterstop Adhesive, 310ml cartridge
- Visqueen IGW Pipe Strap

Storage and handling

Visqueen IGW Admix should be stored upright, under cover in its original packaging and above 5°C.

The product has a minimum shelf life of 12 months.

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

Preparation

Concrete containing Visqueen IGW Admix is normally supplied as a ready-mixed concrete. The concrete must have a minimum cement content of 350 kg/m³ and be batched with a maximum 0.45 water/cement ratio.

Installation

Installation must be in accordance with BBA certificate 20/5783. Visqueen IGW Admix is used in the ratio of 1:1 i.e. one 4.1kg bag for each 1m³ of concrete.

Please see below Batch Plant operation recommendations:

1. Central mix operation
Ready Mix Plant - add the Visqueen IGW Admix soluble bag and contents to water e.g. approximately 2 bags (8.2kg) of admix mixed with 10L of water. Pour the required amount of material into the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant in accordance with standard practices (taking into account the quantity of water that has already been placed in the ready-mix truck). Pour the concrete into the truck and mix for at least 5 minutes to ensure even distribution of the admix throughout the concrete.

2. Dry batch operation
Ready Mix Plant - add the Visqueen IGW Admix in powder form to the drum of the ready-mix truck. Position the truck under the batch plant and add 60% – 70% of the required water along with 140kg – 230kg of aggregate. Mix

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Visqueen IGW Admix

the materials for 2-3 minutes to ensure the admix is distributed evenly throughout the mix water. Add the balance of materials to the ready-mix truck in accordance with standard batch practices.

3. Pan Mixer
Precast Batch Plant - add the Visqueen IGW Admix in powder form to the aggregate and sand, then mix thoroughly for 2-3 minutes before adding the cement and water. The total concrete mass should be blended using standard practices.

NOTE: It is important to obtain a homogeneous mixture of Visqueen IGW Admix with the concrete. Therefore, do not add dry admix powder directly to wet concrete as this may cause clumping and thorough dispersion will not occur.

Usable temperature range

It is recommended that Visqueen IGW Admix should not be incorporated into the concrete mix when temperatures are 5°C and falling.

Additional information

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	Units	Value
Soluble bag	kg	4.1
Quantity per tub	Number	6
Shelf life	Months	12 minimum

Health and safety information

Refer to the Visqueen IGW Admix 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.

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Visqueen IGW Admix

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 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.

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com