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Agrément Certificate  
**16/5383**  
Product Sheet 1

## BIOKIL CROWN MASONRY PROTECTION SYSTEMS

### AQUADRY MASONRY PROTECTION CREAM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Aquadry<sup>(2)</sup> Masonry Protection Cream, a breathable remedial masonry water-repellent barrier for use on domestic and non-domestic buildings on brick, mortar, sandstone and concrete substrates.

- (1) Hereinafter referred to as 'Certificate'.  
(2) Aquadry is a registered trademark.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

#### KEY FACTORS ASSESSED

**Water penetration** — the product resists the uptake of water into masonry substrates (see section 6).

**Condensation risk** — the product does not increase the risk of condensation comparative to untreated substrates (see section 7).

**Freeze/thaw resistance** — the product is resistant to the effects of freeze/thaw cycling (see section 8).

**UV resistance** — the product is resistant to the effects of UV light (see section 9).

**Durability** — the product will remain effective as a masonry water repellent for 25 years (see section 11).



The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 18 January 2017

John Albon — Head of Approvals  
Construction Products

Claire Curtis-Thomas  
Chief Executive

*The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)*

*Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

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# Regulations

In the opinion of the BBA, the use of Aquadry Masonry Protection Cream in an existing building is not subject to the national Building Regulations.

## Construction (Design and Management) Regulations 2015

## Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See section: 3 *Delivery and site handling* (3.1 and 3.2) of this Certificate.

# Technical Specification

## 1 Description

1.1 Aquadry Masonry Protection Cream is an emulsion cream, applied by brush, roller or spray to masonry surfaces to form a colourless and breathable water-repellent barrier.

1.2 Included in this assessment only when used with the product are Aquadry Repointing Additives No 1 and No 2, concentrates that are diluted with water and used as gauging solutions for sand/cement and sand/lime repointing mixtures to provide increased water repellency.

## 2 Manufacture

2.1 The products are manufactured by controlled batch-blending processes. Quality control is exercised over raw materials during manufacture and on the final product.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

## 3 Delivery and site handling

3.1 The products are supplied in the pack sizes given in Table 1:

Table 1 Packaging and storage

Product	Pack size	Shelf-life and storage requirements
Aquadry Masonry Protection Cream	5 litre	12 months, stored in a cool, dry place and protected from frost
Aquadry Repointing Additive No.1	500 ml	12 months, stored in a cool, dry place and protected from frost
Aquadry Repointing Additive No.2	500 ml	12 months, stored in a cool, dry place and protected from frost

3.2 The Certificate holder has taken the responsibility of classifying and labelling the product under the *CLP Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

# Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Aquadry Masonry Protection Cream.

# Design Considerations

## 4 Use

Aquadry Masonry Protection Cream is satisfactory for application to unpainted walls consisting of brick, mortar (with or without Aquadry Repointing Additive No 1 or No 2), sandstone and concrete.

## 5 Practicability of installation

The product is designed to be installed by a competent general builder, or a contractor, experienced with this type of product.

## 6 Water penetration

The product is satisfactory in resisting the penetration of rain into brick, mortar (with or without Aquadry Repointing Additive No 1 or No 2), sandstone and concrete (see Table 2).

Table 2 Coefficient of water absorption per substrate

Substrate	% reduction in water absorption coefficient
Brick	99
Beestone	83
Concrete	98
Mortar	98
Mortar with Repointing Additive 1	97
Mortar with Repointing Additive 2	92

## 7 Condensation risk

Tests on a brick substrate indicate the product does not significantly affect the resistance to water vapour diffusion of the substrate and therefore will not increase the risk of condensation.

## 8 Freeze/thaw resistance

The product is resistant to the effects of freeze/thaw cycling.

## 9 UV resistance

The product is resistant to the effects of UV radiation.

## 10 Maintenance

The product is absorbed by the masonry substrate and does not require maintenance.

## 11 Durability

There may be some loss of surface beading properties over time, but the product will remain effective as a water repellent for a period of 25 years.

# Installation

## 12 General

12.1 Aquadry Masonry Protection Cream must only be applied to dry, porous surfaces. The product must not be applied over sealed or painted surfaces and is intended for above ground applications only.

12.2 The product must only be applied when no rain is forecast for 24 hours following the application.

12.3 The product appears white on first application, which fades over 15–20 minutes as the product starts to penetrate the masonry.

12.4 It may take up to two months for the full 'beading' effect to appear when rainfall hits the treated wall.

## 13 Preparation

13.1 Cracks in any brick or stonework must be filled, using a suitable sand/lime or sand/cement mortar incorporating Aquadry Repointing Additive No 1 or No 2.

13.2 Any loose mortar, dust or debris must be removed using a masonry brush. Dirty surfaces should be cleaned before the application of the product, to the recommendations given in BS 8221-1 : 2000.

13.3 Biological growth, such as moss, algae or lichen, must be removed using a suitable biocide in accordance with the manufacturer's instructions.

## 14 Procedure

14.1 Aquadry Masonry Protection Cream is brush-applied at a coverage rate of approximately 1 litre per 5 m<sup>2</sup> (dependent on the roughness and absorbency of the surface) to details such as window reveals.

14.2 For larger areas, the product is applied using a roller or electric roller, or by airless spray. Advice from the Certificate holder may be sought if required.

14.3 Any difficult-to-apply areas such as voids in brickwork or deep mortar beds must be treated using a brush.

### 15 Tests

Tests were conducted on Aquadry Masonry Protection Cream and the results assessed to determine:

- depth of penetration on a selection of masonry substrates
- capillary absorption (coated and uncoated)
- effect of UV ageing
- effect of freeze/thaw cycling
- drying time.

### 16 Investigations

16.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

16.2 An assessment was made of the practicability of installation.

## Bibliography

BS 8221-1 : 2000 *Code of practice for cleaning and surface repair of buildings — Cleaning of natural stones, brick, terracotta and concrete*

## 17 Conditions

17.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

17.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

17.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

17.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

17.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

17.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.