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Agrément Certificate

19/5631

Product Sheet 1

WYKAMOL MASONRY WATER REPELLENT PRODUCTS

WYKAMOL DRYSEAL

This Agrément Certificate Product Sheet⁽¹⁾ relates to Wykamol Dryseal, a breathable remedial masonry water-repellent for use on domestic and non-domestic buildings on brick, mortar, sandstone and concrete substrates.

(1) Hereinafter referred to as 'Certificate'.

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).

Properties in relation to fire — The product is restricted to use on buildings up to 18 metres in height and at least 1 metre from the boundary (see section 10)

Durability — the product will remain effective as a masonry water repellent for 25 years (see section 12).



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

John Albon – Head of Approvals
Construction Products

Claire Curtis-Thomas
Chief Executive

Date of First issue: 25 February 2019

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
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.
Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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Regulations

In the opinion of the BBA, Wykamol Dryseal, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	C2(b)	Resistance to moisture
Comment:		The product can contribute to satisfying this Requirement. See section 6 of this Certificate.
Requirement:	B4(1)	External fire spread
Comment:		The use of the product is restricted under this Requirement. See section 10 of this Certificate.
Regulation:	7	Materials and workmanship (applicable to Wales only)
Regulation:	7(1)	Materials and workmanship (applicable to England only)
Comment:		The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation:	7(2)	Materials and workmanship (applicable to England only)
Comment:		The product is restricted under this Regulation. See section 10 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The product comprises acceptable materials and satisfies the requirements of this Regulation. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.6	Spread from neighbouring building
Comment:		The use of the product is restricted under this Standard, with reference to clauses 2.6.4 ⁽¹⁾⁽²⁾ , 2.6.5 ⁽¹⁾ and 2.6.6 ⁽²⁾ . See section 10 of this Certificate.
Standard:	2.7	Spread on external walls
Comment:		The use of the product is restricted under this Standard, with reference to clauses 2.7.1 ⁽¹⁾⁽²⁾ and 2.7.2 ⁽¹⁾⁽²⁾ . See section 10 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product can contribute to satisfying the requirements of this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ . See section 6 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards applicable to conversions
Comment:		All comments given for the system under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ .

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	23(a)	Fitness of materials and workmanship
Comment:	(b)(i)	The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The product can contribute to satisfying the requirements of this Regulation. See section 6 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The use of the product is restricted under this Regulation. See section 10 of this Certificate.

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 sections: *3 Delivery and site handling* of this Certificate.

Technical Specification

1 Description

Wykamol Dryseal is a breathable, water-repellent emulsion cream, based on silanes and siloxanes.

2 Manufacture

2.1 The product is 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.

2.3 The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 9001 : 2015 by TÜV SÜD Management Service GmbH (Certificate No 12 100 49144 TMS).

3 Delivery and site handling

3.1 The product must be stored unopened in a cool, dry, well ventilated place, protected from frost and sunlight. Details of packaging, shelf life and storage conditions are given in Table 1.

Table 1 Pack size and shelf-life

Pack type	Pack sizes (litres)	Shelf-life and storage temperature
Plastic buckets	3, 5, 10 and 20	9 months/minimum 0°C

3.2 The Certificate holder has taken the responsibility of classifying 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 Wykamol Dryseal.

Design Considerations

4 Use

Wykamol Dryseal is satisfactory for application by brush, roller or spray as a single coat to unpainted walls above ground consisting brick, mortar, sandstone and concrete to reduce the water absorption of the surface caused by wind-driven rain.

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, sandstone and concrete (see Table 2).

Table 2 Reduction in water absorption coefficient for substrates tested

Substrate	% reduction in water absorption coefficient
Brick	>99
Sandstone (Beestone)	>94
Mortar	>95
Concrete	>91

7 Condensation risk

Tests on a brick substrate indicate that 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 light.

10 Properties in relation to fire



The Certificate holder has not declared a reaction to fire classification for substrates including the product and so its use is restricted under the national Building Regulations to buildings up to 18 metres in height and at least 1 metre from the boundary. Calculations for unprotected areas may apply.

11 Maintenance

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

12 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

13 General

13.1 Wykamol Dryseal 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.

13.2 The product must not be applied during rainfall or when rain is forecast within 24 hours of application.

13.3 The product appears white on first application and fades as the product starts to penetrate the masonry. The surface of the masonry may darken in colour during and immediately after application but will become lighter as the product cures. The product can be tested on a discrete area of walling before use.

14 Preparation

14.1 All walls must be free from dirt, excess algae, moss and loose materials.

14.2 Walls are cleaned using a pressure washer from such a distance as not to damage mortar joints. Stubborn areas are cleaned using a stiff brush and soapy water and subsequently rinsed off with the pressure washer. Walls should be allowed to dry for at least 24 hours.

14.3 Cracks in any brick, mortar or stonework must be filled, using a suitable sand/lime or sand/cement mortar.

15 Procedure

15.1 Wykamol Dryseal is applied by brush, roller or spray as a single coat at a minimum coverage rate of 0.3 l·m².

15.2 The product is applied around windows, doors and other details using a masonry paint brush. For larger areas of masonry, the product is applied by roller or airless spray.

15.3 Care must be taken to ensure that the product is not applied to any areas other than masonry. If application to any other area occurs, the product must be removed with a wet cloth.

15.4 The product is expected to be fully cured within two months when water beads and runs off the treated surface.

16 Tests

Tests were carried out on Wykamol Dryseal and the results assessed to determine:

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

17 Investigations

17.1 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.

17.2 An assessment was made of the practicability of installation.

Bibliography

ISO 9001 : 2015 *Quality management systems — Requirements*

18 Conditions

18.1 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.

18.2 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.

18.3 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.

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

18.5 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.

18.6 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.