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Agrément Certificate
02/3961
Product Sheet 6

WYKAMOL CHEMICAL DAMP-PROOFING SYSTEMS

HYDRADRY

This Agrément Certificate Product Sheet⁽¹⁾ relates to HydraDRY, a cementitious waterproofing compound for use as internal waterproofing against penetrating damp for walls of brickwork, blockwork or stone below the level of the installed damp-proof course (dpc).

(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

Resistance to water penetration — when used in conjunction with a Wykamol dpc system, the product resists the penetration of water through the wall below the level of the installed dpc system (see section 6).

Durability — when protected from damage, the product will provide an effective barrier against the transmission of liquid water into the building for the life of the dpc system with which it is installed (see section 8).

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 Third issue: 11 December 2015

John Albon — Head of Approvals

Claire Curtis-Thomas

Originally certificated on 4 December 2002

Construction Products

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

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

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



In the opinion of the BBA, the use of HydraDRY in an existing building is not subject to these Regulations, but action to satisfy Requirement C2(a) and Regulation 7 may be necessary for a 'Material change of use' as defined in Regulation 5(a) (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):

Requirement:	C2(a)	Resistance to moisture
Comment:		The product adequately resists the passage of moisture. See section 6 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The product is acceptable. See section 8 and the <i>Installation</i> part of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)



In the opinion of the BBA, the use of HydraDRY in an existing building is not subject to these Regulations, but action to satisfy the Regulations and related Mandatory Standards below may be necessary for a 'Conversion' as defined in Regulation 4 (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):

Regulation:	8(1)	Durability, workmanship and fitness of materials
Comment:		The product can contribute to a construction satisfying this Regulation. See section 8 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.3	Flooding and ground water
Standard:	3.4	Moisture from the ground
Standard:	3.10	Precipitation
Comment:		The product adequately resists the passage of moisture and can contribute to satisfying these Standards, with reference to clauses 3.3.2 ⁽¹⁾⁽²⁾ , 3.4.1 ⁽¹⁾⁽²⁾ , 3.4.5 ⁽¹⁾⁽²⁾ , 3.4.7 ⁽¹⁾⁽²⁾ and 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 this 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)



In the opinion of the BBA, the use of HydraDRY in an existing building is not controlled by these Regulations, but action to satisfy Regulations 23(a)(i)(ii)(iii)(iv) and 28(a) may be necessary for a 'Material change of use' under Regulation 8 (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):

Regulation:	23(a)(b)(i)	Fitness of materials and workmanship
Comment:		The product is acceptable. See section 8 and the <i>Installation</i> part of this Certificate.
Regulation:	28(a)	Resistance to moisture and weather
Comment:		The product adequately resists the passage of moisture. See section 6 of this Certificate.

Construction (Design and Management) Regulations 2015

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, Principal Designer/CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

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

Additional Information

NHBC Standards 2014

NHBC accepts the use of HydraDRY, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 5.1 *Substructure and ground floors*.

Technical Specification

1 Description

HydraDRY is a cementitious compound containing cement, graded sands and chemical additives, which is mixed with water on site and applied as a slurry to form an internal waterproofing layer against penetrating water for walls of brickwork, blockwork or stone below the level of the installed dpc.

2 Manufacture

2.1 The product is manufactured in a controlled batch blending process.

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 Wykamol Group has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by Garek Assured (Certificate 01111/1104.02).

3 Delivery and site handling

3.1 The product is supplied in 25 kg polypropylene sacks. Each container carries a label bearing the product name, Certificate holder's name and address, and gross weight.

3.2 The Certificate holder has taken the responsibility of classifying and labelling the system components 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).

3.3 The product is cement-based and must be stored in dry conditions.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on HydraDRY.

Design Considerations

4 Use

HydraDRY is satisfactory for use in conjunction with a Wykamol dpc system, as an internal waterproofing layer against penetrating water for walls of brickwork, blockwork or stone below the level of the installed dpc.

5 Practicability of installation

The product should be installed by contractors with experience of the treatment of damp substrates using the methods described in this Certificate.

6 Resistance to water penetration



The product resists the penetration of water through the wall below the level of an installed Wykamol Chemical Damp-Proofing system.

7 Maintenance

The product does not require maintenance.

8 Durability



When protected from damage as described in section 10.7, the product will provide an effective barrier against the transmission of liquid water into the building for the life of the dpc with which it is installed.

Installation

9 General

- 9.1 HydraDRY is applied to brickwork, blockwork or stone walls (with a sand-cement or sand-lime-cement mortar).
- 9.2 All joints must be flush pointed, defects made good, and irregular surfaces given a trowelled or floated finish with a 3:1 sand-cement mix.
- 9.3 All surfaces must be free from existing coatings or contamination (eg paint, laitance or dirt).
- 9.4 If the substrate contains high levels of salt contamination, particularly sulfates, advice should be sought from the Certificate holder before proceeding.
- 9.5 If the surface is dry, it must be thoroughly wetted but free from surface water prior to HydraDRY being applied.

10 Procedure

- 10.1 HydraDRY is applied at temperatures of 5°C and above.
- 10.2 The product is mixed with potable water in clean containers in the ratio 6.5 to 7 litres : 25 kg to form a slurry. Care must be taken to avoid the formation of lumps.
- 10.3 The product is applied to the substrate in at least two coats, to achieve a minimum thickness of 2 mm (4 kg·m⁻²).
- 10.4 The first coat of the product is applied by brush and vigorously worked into the surface. Application is conducted so that a flowing edge is maintained. If this is not possible, when application is continued the previously-applied coat must be overlapped by at least 250 mm. The second coat (and subsequent coats) may be applied by brush or trowel, either after the previous coat's initial set (in normal circumstances, after a minimum period of three hours) or after the previous coat has hardened fully.
- 10.5 Each coat is examined for damage or areas of incomplete coverage before the next is applied.
- 10.6 After the product is mixed, it must be used within 30 minutes.
- 10.7 Once the final coating has hardened fully, a coat of Wykamol Renovating Plaster is applied to protect it from damage in service. Alternatively, any of the sand-cement or sand-lime-cement replastering specifications described in Product Sheet 5 are suitable. Under no circumstances must gypsum-based products be used in direct contact with HydraDRY.

Technical Investigations

11 Investigations

- 11.1 Tests were conducted and the results assessed to determine the resistance to water pressure (applied through the substrate) of a HydraDRY coating on mortar and flush-pointed brickwork.
- 11.2 A visit was made to a site in progress to assess the practicability of installation.
- 11.3 A survey of known users was conducted to assess the performance of the product in use.

Bibliography

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

12 Conditions

12.1 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.

12.2 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.

12.3 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.

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

12.5 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.

12.6 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.