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Agrément Certificate
17/5401
Product Sheet 1

ANDURA MASONRY COATINGS

ANDURA CLASSIC 21

This Agrément Certificate Product Sheet⁽¹⁾ relates to Andura Classic 21, a textured masonry coating applied by heavy-duty air spray equipment to external substrates of concrete, brickwork, rendering or cement sheet.

(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

Permeability — when tested to BS 3177 : 1959, a sample of the coarse textured product applied over Andura Classic Primer on fibre-reinforced cement achieved a water vapour resistance of 31.2 MN·s·g⁻¹ (see section 6).

Behaviour in relation to fire — the product has a Class 2 surface spread of flame classification to BS 476-7 : 1971 (see section 7).

Durability — in normal conditions, the product will have good colour stability and perform satisfactorily for at least 10 years (see section 9).



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: 23 February 2017

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

In the opinion of the BBA, Andura Classic 21, 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:	B4(1)	External fire spread
Comment:		The use of the product is restricted by this Requirement. See section 7 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The product is acceptable. See section 9.1 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The use of the product satisfies the requirements of this Regulation. See sections 8 and 9.1 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.6	Spread to neighbouring buildings
Standard:	2.7	Spread on external walls
Comment:		The use of the product is restricted by these Standards, with reference to clauses 2.6.4 ⁽¹⁾⁽²⁾ , 2.6.5 ⁽¹⁾ , 2.6.6 ⁽²⁾ and 2.7.1 ⁽¹⁾⁽²⁾ . See section 7 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:		Comments made in relation to the product 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(i)(ii)(iii)(iv)	Fitness of materials and workmanship
Comment:		The product is acceptable. See section 9.1 and the <i>Installation</i> part of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The use of the product is restricted by this Regulation. See section 7 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 section: 3 *Delivery and site handling* (3.1 and 3.3) of this Certificate.

Technical Specification

1 Description

1.1 Andura Classic 21 is a textured masonry coating for external walls. It is based on a solution of alkyd resin in hydrocarbon solvent and contains plasticiser, pigments, algicide, fungicide, extenders and other additives.

1.2 The product is available in fine and coarse textures in the following standard colours⁽¹⁾:

- Anglesea
- Autumn Cloud
- Brick Red
- Camelot
- Harvest
- Moroccan Pink
- Orchid
- Polar White
- Rose Blush
- Sandstone
- Sun Fresh
- Waterlily.

(1) Other colours are available on request.

1.3 Ancillary products included in this assessment are:

- Andura Biocide — a biocide solution for sterilising surfaces prior to coating
- Andura Classic Primer — an alkali-resistant sealer for use on masonry and previously-painted surfaces
- Andura Classic Slush — an alternative sealer system for use on rough surfaces
- T66 Thinner — a naphtha-based hydrocarbon thinner.

2 Manufacture

2.1 The product is manufactured by a 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 Andura Coatings has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by the British Standards Institution Quality Assurance (Certificate FM 663919).

3 Delivery and site handling

3.1 The product is supplied in 20 litre containers bearing the Certificate holder's name and batch code.

3.2 The product has a shelf-life of 12 months. Partly-used containers may be resealed and re-stored, provided they are scraped down and the surface is covered with a thin layer of T66 Thinner.

3.3 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 Andura Classic 21.

Design Considerations

4 Use

4.1 Andura Classic 21 is suitable for use as a masonry coating on external walls (see section 4.2) and soffits of the following materials:

- in-situ or precast concrete (dense and lightweight)
- concrete blockwork (dense and lightweight)
- brickwork (stock, facing and calcium silicate bricks)⁽¹⁾
- rendering (sand/cement and sand/lime/cement)
- asbestos-cement sheet
- calcium silicate or fibre-reinforced cement sheet
- surfaces (a) to (f) and previously coated surfaces (see section 8)
- surfaces (a) to (g) sealed with Andura Classic Primer or Andura Classic Slush.

(1) In new construction, the brick manufacturer's recommendations for overcoating must be followed.

4.2 The assessment covers the face of the wall above the damp proof course (dpc) level, and excludes horizontal surfaces such as ledges, sills and copings. The coating of parapet walls is not recommended.

5 Practicability of installation


Installation must only be carried out by competent contractors experienced with this type of product.

6 Permeability

6.1 When tested to BS 3177 : 1959, a sample of the coarse-textured product applied over Andura Classic Primer on fibre-reinforced cement achieved a water vapour resistance of 31.2 MN·s·g⁻¹.

6.2 The product tends to shed water, considerably reducing the amount that can be absorbed by the substrate during rain. However, particular care should be taken to ensure that the building is free from defects, eg faulty roofing, rising damp and penetration around windows, which would cause water ingress behind the coating.

7 Behaviour in relation to fire

 7.1 When used on the non-combustible substrates listed in section 4.1, Andura Classic 21, applied in a coarse texture over Andura Classic Primer, achieved an Index of Performance of 15.3 in accordance with BS 476-6 : 1989 and a Class 2 Classification in accordance with BS 476-7 : 1971, and is therefore defined as 'high risk' under the Building (Scotland) Regulations 2004 (as amended).

7.2 This performance may not be achieved if the product is applied without Andura Classic Primer or if used over a previous paint coating.

8 Maintenance



8.1 The coating may be cleaned occasionally using a soft bristle brush and will withstand repeated similar treatments.

8.2 For re-coating, normally it is neither necessary nor possible to remove the existing coating completely. The surface must be prepared by washing or brushing and then recoating with appropriate Andura products as recommended by the manufacturer. Oil-based, gloss or cement paints must not be used.

9 Durability



9.1 Andura Classic 21, when correctly applied to strong, durable substrates, will perform satisfactorily in normal conditions, with good colour stability, for more than 10 years.

9.2 In industrial atmospheres, the coating may become dirty and, to maintain its appearance, more frequent cleaning or recoating may be necessary.

9.3 Over time, there will be a gradual change in colour although this will not be excessive. However, the product will be discoloured by water runs and care must be taken to ensure that the normal architectural details for shedding water are present and functioning.

9.4 The coating may be abraded, particularly at ground-floor level, by carelessness in use, eg if bicycles or gardening tools are repeatedly leant against it.

Installation

10 General

Application of Andura Classic 21 should only be carried out in accordance with the relevant clauses of BS 6150 : 2006 and BS 8000-12 : 1989.

11 Preparation

11.1 The substrates listed in section 4.1 must be sound, free from dirt and grease, and reasonably dry. The surface may be prepared by abrasive blast cleaning (using non-ferrous abrasives), mechanical cleaning with a descaling gun, scraping, wire-brushing (using a stainless steel or non-ferrous wire brush), steam-cleaning or high pressure water-jetting. If the surface has been painted previously, the existing coating's adhesion must be checked, and the coating removed by mechanical means if necessary.

11.2 Joints in new brickwork and blockwork should be flush finished. Mortar joints in existing work should be repointed if necessary and allowed to cure.

11.3 The product can bridge hairline cracks in the substrate but larger cracks must be filled and patched. Imperfections in the substrate (such as blow holes) should be treated with the Certificate holder's recommended fairing coat, and in accordance with their instructions.

11.4 For areas where recent repairs have been carried out, or the entire area has been rendered or treated with cement-based materials, due care must be taken to ensure that the areas are sufficiently cured and dried out and that excessive moisture is not present. Areas which exhibit high levels of alkalinity, such as recent repair sites, will require two coats of Andura Classic Primer or Andura Classic Slush.

11.5 Joinery, windows, rainwater goods, fascias, barge boards and neighbouring property must be masked and paths alongside the property protected with dust sheets.

11.6 Any organic growth must be removed mechanically from old surfaces, which are then sprayed with Andura Biocide and allowed to dry. A separate application of sodium hypochlorite should be applied if necessary.

11.7 Any loose material must be removed with a stiff brush.

11.8 All surfaces must receive one coat of either Andura Classic Primer or Andura Classic Slush (two coats for highly alkaline surfaces — see section 11.4) and allowed to dry. Coverage should be at a rate of 0.20 to 0.45 litres per m², depending on the nature of the substrate. If any porous patches remain on the substrate after the first coat, a further application of Andura Classic Primer/Andura Classic Slush should be made.

12 Application

12.1 Andura Classic 21 is applied by heavy-duty air spray equipment at a coverage rate of 1.2 to 1.5 litres per m². The Certificate holder can advise on suitable types of spray equipment.

12.2 The product must not be applied in wet weather, nor to a frosted surface. Freshly-coated work must be protected from rain.

12.3 To avoid patchiness owing to drying edges, work is normally carried to an internal or external angle or to a feature. Alternatively, joints may be made to coincide with downpipes. On large unbroken areas, sufficient operatives should be available to maintain a flowing edge.

Technical Investigations

13 Tests

13.1 Tests were conducted on samples applied to various primed and unprimed substrates, and the results assessed to determine:

- adhesion to substrates
- effect of water immersion
- effect of alkali immersion
- colour stability and resistance to artificial weathering
- resistance to impact
- abrasion resistance
- extensibility
- resistance to algal growth
- resistance to soiling
- water vapour permeability
- resistance to wind-driven rain
- flashpoint.

13.2 Test reports were evaluated in relation to:

- surface spread of flame
- fire propagation.

14 Investigations

14.1 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.

14.2 A site visit was made to assess the practicability of application.

14.3 Visits were made to established sites to determine the product's durability in service.

Bibliography

BS 476-6 : 1989 + A1 : 2009 *Fire tests on building materials and structures — Method of test for fire propagation for products*

BS 476-7 : 1971 *Fire tests on building materials and structures — Surface spread of flame tests for materials*

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*

BS 6150 : 2006 + A1 : 2004 *Painting of buildings — Code of practice*

BS 8000-12 : 1989 *Workmanship on building sites — Code of practice for decorative wall coverings and painting*

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

15 Conditions

15.1 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.

15.2 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.

15.3 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.

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

15.5 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.

15.6 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.