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Agrément Certificate

97/3412

Product Sheet 1

PPG ARCHITECTURAL COATINGS UK LTD

JOHNSTONE'S WOODWORKS EXTERIOR SATIN FINISH WOODSTAIN

This Agrément Certificate Product Sheet⁽¹⁾ relates to Johnstone's Woodworks Exterior Satin Finish Woodstain, a medium build, semi-transparent and semi-gloss woodstain, for use on internal or external timber joinery, doors or planed cladding.

(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 vapour permeability — the product is permeable to moisture vapour, and therefore the moisture content of the coated timber is more likely to remain stable (see section 6).

Durability — in normal conditions the coating will have good colour stability and perform satisfactorily for up to four years (see section 10).



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 Fourth issue: 5 February 2019

John Albon — Head of Approvals
Construction Products

Claire Curtis-Thomas
Chief Executive

Originally certificated on 27 April 1998

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

The national Building Regulations restrict the situations where timber cladding can be used. In the opinion of the BBA, where timber is permitted, the use of Johnstone's Woodworks Exterior Satin Finish Woodstain 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 sections: 1 *Description* (1.1, 1.3 and 1.4), 3 *Delivery and site handling* (3.1 to 3.4) and 12 *General* (12.2) of this Certificate.

Additional Information

NHBC Standards 2019

In the opinion of the BBA, Johnstone's Woodworks Exterior Satin Finish Woodstain, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 9.5 *Painting and decorating*.

Technical Specification

1 Description

1.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is a blended solution of an alkyd-based resin with pigments, fungicide and other additives. It contains no added lead and is defined as medium build, semi-transparent and semi-gloss under BS EN 927-1 : 2013.

1.2 The product is available in a range of standard colours, details of which are available from the Certificate holder. Intermediate colours can be obtained by mixing different shades.

1.3 Johnstone's Woodworks Interior/Exterior All Purpose Primer is a solvent-based product used as a pre-treatment for softwood that has not been preserved previously and is approved for this use under the Control of Pesticides (Amendment) Regulations 1997 (HSE No 7071).

1.4 Johnstone's Sterilisation Wash is a water-based material used for the pre-treatment of areas affected by organic growth and is approved for this use under the Control of Pesticides (Amendment) Regulations 1997 (HSE No 7036).

2 Manufacture

2.1 The product is manufactured by mixing resin and solvents with the addition of pigments and additives in 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 systems of the Certificate holder have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by BSI (Certificate FM 01265) and BS EN ISO 14001 : 2015 by Lloyd's Register (Certificate UQA 0112806).

3 Delivery and site handling

3.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is supplied in 0.75, 2.5 and 5 litre tins marked with the Certificate holder's name, batch number and code, and the BBA logo incorporating the number of this Certificate.

3.2 Johnstone's Woodworks Interior/Exterior All Purpose Primer is supplied in 1 litre containers.

3.3 Johnstone's Sterilisation Wash is supplied in 2.5 litre containers and should be stored in a cool, dry, well-ventilated place. Containers should be protected from frost when in transit and on site.

3.4 The Certificate holder has taken responsibility of classifying and labelling the product under the *CPL 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).

3.5 Johnstone's Woodworks Exterior Satin Finish Woodstain has a shelf-life of two years. Partly used containers may be re-stored provided they are airtight.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out Johnstone's Woodworks Exterior Satin Finish Woodstain.

Design Considerations

4 Use

4.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is satisfactory for use as a decorative coating on internal or external timber joinery, doors or planed cladding.

4.2 The product is satisfactory as a redecoration over an existing stained finish.

4.3 The product is brush-applied, in two or three coats where needed to achieve the desired aesthetic finish.

5 Practicability of installation

The product is designed to be readily applied by operatives familiar with this type of product.

6 Water vapour permeability

6.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is permeable to water vapour, and is substantially more permeable than a conventional alkyd gloss paint system (see Table 1).

Table 1 Water vapour resistance test results	
Product	Water vapour resistance ($\text{MN}\cdot\text{s}\cdot\text{g}^{-1}$)
Johnstone's Woodworks Exterior Satin Finish Woodstain (3 coats)	6.1
Alkyd gloss system	18.8

6.2 Johnstone's Woodworks Exterior Satin Finish Woodstain has less impediment to natural drying, and the substrate will dry more readily after exposure to wet conditions. Consequently, unpreserved timber coated with the product may decay less readily than with a conventional paint coating.

7 Design of window joinery

7.1 After exposure, the product may develop fine cracks at sharp corners which will permit water penetration and affect durability. Window joinery (particularly sills) should be designed to have rounded or bevelled corners. Should cracking occur, these areas should be recoated.

7.2 The product is not normally capable of giving the protection to putty that is given by a gloss paint system. Suitable glazing specifications for use with the product are:

- beaded glazing with 20 mm beads of preservative-treated softwood/non-durable hardwood⁽¹⁾
- beaded glazing with rigid, high-density hardwood beads⁽¹⁾
- factory-produced gasket-glazed units.

(1) Beads should be rounded or bevelled, and glazing should be bedded with a non-setting polymer-based sealant.

8 Transmission of ultraviolet light

The product is opaque to ultraviolet (UV) light and therefore gives some protection to the surface of the wood from degradation.

9 Maintenance

9.1 Recoating should be considered at regular four-yearly intervals. Damaged areas must be repaired and surfaces prepared for redecoration by washing with a detergent solution and rinsing, or by using an appropriate HSE approved fungicidal wash. Heavily-soiled areas should be sanded and any resin exudation scraped off.

9.2 To prevent progressive darkening of the surface, a lighter shade may be used for redecoration.

10 Durability

10.1 Johnstone's Woodworks Exterior Satin Finish Woodstain will perform satisfactorily with good colour retention for up to four years in normal conditions when applied properly as two coats:

- to new external timbers preserved in accordance with BS EN 351-1 : 2007 in accordance with the recommendations contained in the specification manual of the British Wood Preserving and Damp-proofing Association. The heartwood of durable hardwood species does not require preservative treatment
- as a redecoration for an existing stained surface.

10.2 The external performance of unpreserved timber is limited by the possibility of decay (see section 6).

10.3 The coating may be discoloured by water runs. To prevent this, the normal architectural details for shedding water clear of the building should be present and functioning.

Installation

11 Preparation

11.1 Timbers should be free from defects and resin exudation and joinery should be designed with proper water-shedding details. Planed timbers should have rounded or bevelled edges.

11.2 New timbers, including beading, are pre-treated with Johnstone's Woodworks Interior/Exterior All Purpose Primer and allowed to dry overnight.

11.3 For existing timbers, areas affected by organic growth are treated with Johnstone's Sterilisation Wash. Any loose material is removed with a stiff brush and the surface is washed with clean water and allowed to dry. A second application of Johnstone's Sterilisation Wash is made and allowed to dry.

11.4 Any holes are filled with a flexible, stainable, exterior filler (if these defects are visible, they can be obscured by using the darker shades).

12 General

12.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is stirred thoroughly before application and is applied in accordance with the Certificate holder's instructions in dry conditions to properly-prepared substrates.

12.2 Proper ventilation should be provided for internal applications.

13 Application

13.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is applied at a coverage of approximately 15 m² per litre. Particular care is taken to coat the end-grain and all the faces of glazing beads.

13.2 Additional coats can be applied the following day at the same rate of coverage.

Technical Investigations

14 Tests

Tests were conducted on the product and results assessed to determine:

- ease of application
- water vapour permeability
- effectiveness against mould growth
- resistance to water penetration
- colour stability and resistance to artificial weathering
- resistance to blocking
- extensibility.

15 Investigations

15.1 An assessment was made of existing data relating to external durability.

15.2 A user survey was conducted to establish the performance of the product in service.

15.3 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.

Bibliography

BS EN 351-1 : 2007 *Durability of wood and wood-based products — Preservative-treated solid wood — Classification of preservative penetration and retention*

BS EN 927-1 : 2013 *Paints and varnishes — Coating materials and coating systems for exterior wood — Classification and selection*

BS EN ISO 9001 : 2015 *Quality management systems — requirements*

BS EN ISO 14001 : 2015 *Environmental Management systems — requirements with guidance for use*

16 Conditions

16.1 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.

16.2 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.

16.3 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.

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

16.5 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.

16.6 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.