



## Kalon Decorative Products

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**Agrément  
Certificate  
No 97/3412**  
Third issue\*

Designated by Government  
to issue  
European Technical  
Approvals

## JOHNSTONE'S WOODWORKS EXTERIOR SATIN FINISH WOODSTAIN

Produits pour protection et décoration du bois  
Holzlasur

## Product



- THIS CERTIFICATE RELATES TO JOHNSTONE'S WOODWORKS EXTERIOR SATIN FINISH WOODSTAIN, A PERMEABLE ALKYD-BASED STAIN FOR TIMBER.

- The product is applied by brush and is for internal or external use, on joinery, doors or planed timber cladding.

## Regulations

### 1 The Building Regulations 2000 (as amended) (England and Wales)



These Regulations impose restrictions on timber cladding but, in the opinion of the BBA, no other restrictions exist on the use of Johnstone's Woodworks Exterior Satin Finish Woodstain.

### 2 The Building (Scotland) Regulations 2004



These Regulations restrict the situations where timber cladding can be used. Where timber is permitted, the BBA considers the use of Johnstone's Woodworks Exterior Satin Finish Woodstain is unrestricted.

### 3 The Building Regulations (Northern Ireland) 2000



These Regulations restrict the situations where timber cladding can be used. Where timber is permitted, the BBA considers the use of Johnstone's Woodworks Exterior Satin Finish Woodstain is unrestricted.

### 4 Construction (Design and Management) Regulations 1994 (as amended) Construction (Design and Management) Regulations (Northern Ireland) 1995 (as amended)

Information in this Certificate may assist the client, planning supervisor, designer and contractors to address their obligations under these Regulations.

See sections:

5 Description (5.2, 5.6 and 5.7), 6 Delivery and site handling (6.1 to 6.4) and 15 General (15.2).

## Technical Specification

### 5 Description

5.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is a solvent-based stain for internal or external joinery, doors or planed timber cladding.

5.2 The product is a solution of an alkyd-based resin with pigments, fungicide and other additives. It contains no added lead and is available in a range of standard colours, details of which are available from Kalon Decorative Products.

5.3 Intermediate colours can be obtained by mixing different shades.

5.4 The product is defined as medium build, semi-transparent and semi-gloss under BS EN 927-1 : 1997.

5.5 The product is manufactured by a batch blending process. Quality control is exercised on the raw materials, during production and on the finished product.

5.6 Johnstone's Woodworks Universal Primer is a white spirit-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 Regulations 1986 (HSE No 7070).

5.7 Mangers 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 Regulations 1986 (HSE No 7036).

### 6 Delivery and site handling

6.1 The product is supplied in 0.75 litre, 2.5 litre and 5 litre tins marked with the manufacturer's name, batch number and code, and the BBA identification mark incorporating the number of this Certificate.

6.2 Johnstone's Woodworks Universal Primer is supplied in 1 litre containers.

6.3 Mangers Sterilisation Wash is supplied in 2.5 litre containers.

6.4 Johnstone's Woodworks Exterior Satin Finish Woodstain and Johnstone's Woodworks Universal Primer have flashpoints of 40°C and are classified 'Flammable' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3). They should be stored in a cool place, away from naked flames.

6.5 Mangers Sterilisation Wash should be stored in a cool, dry, well ventilated place. Containers should be protected from frost when in transit and on site.

6.6 The product has a shelf-life of two years. Partly used containers may be re-stored provided they are airtight.

## Design Data

### 7 General

7.1 Johnstone's Woodworks Exterior Satin Finish Woodstain is satisfactory for use on timber joinery, doors or planed cladding.

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

7.3 The product is brush applied, in two or three coats.

### 8 Water vapour resistance

Johnstone's Woodworks Exterior Satin Finish Woodstain is permeable to water vapour, and substantially more permeable than a conventional alkyd gloss paint system (see section 17.2).

### 9 Control of substrate moisture content

9.1 In painted joinery, water normally enters the substrate through defects in the paint film and through joints. The substrate can thus reach a high moisture content.

9.2 With an impermeable film, natural drying is slow and the moisture content will remain high; consequently, the paint may perform badly, and the substrate (if not preserved) may decay.

9.3 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.

### 10 Design of window joinery

10.1 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. It is advantageous to re-coat these areas, should cracking occur.

10.2 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<sup>(1)</sup>
- beaded glazing with rigid, high-density hardwood beads<sup>(1)</sup>
- factory-produced gasket-glazed units.

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

### 11 Transmission of ultraviolet light

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

### 12 Maintenance

12.1 Re-coating should be envisaged at three- to four-yearly intervals. Damaged areas must be repaired and surfaces can normally be prepared for redecoration by washing with a detergent solution and rinsing, or by using an appropriate fungicidal wash. Heavily soiled areas should be sanded and any resin exudation should be scraped off.

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

## 13 Durability

13.1 Johnstone's Woodworks Exterior Satin Finish Woodstain will perform satisfactorily with good colour retention for four years when applied properly in two coats:

- to new external timbers preserved in accordance with BS 5589 : 1989, BS 5268-5 : 1989 or BS EN 351-1 : 1996 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.

13.2 The external performance of unpreserved timber is limited by the possibility of decay (see section 9).

13.3 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

### 14 Preparation

14.1 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.

14.2 New timbers, including beading, should be pre-treated with Johnstone's Woodworks Universal Primer and allowed to dry overnight.

14.3 For existing timbers, areas affected by organic growth are treated with Mangers 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 Mangers Sterilisation Wash is then made and allowed to dry.

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

### 15 General

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

15.2 Proper ventilation should be provided for internal applications.

### 16 Application

16.1 Initially, one coat of Johnstone's Woodworks Exterior Satin Finish Woodstain is applied at a coverage of approximately 15 m<sup>2</sup> per litre. Particular care is taken to coat the end-grain and all the faces of glazing beads.

16.2 Subsequent coats can be applied the following day at the same rate of coverage.

## Technical Investigations

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

### 17 Tests

17.1 Samples of the product were tested to determine:

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

17.2 Water vapour resistance results are shown in Table 1.

Table 1 Water vapour resistance test results

Product	Water vapour resistance (MNsg <sup>-1</sup> )
Johnstone's Woodworks Exterior Satin Finish Woodstain (3 coats)	6.1
Alkyd Gloss System	18.8

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

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

## Additional Information

The management systems of Kalon Decorative Products have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2000 by the British Standards Institution Quality Assurance (Certificate No FM 01265).

## Bibliography

BS 5268-5 : 1989 *Structural use of timber — Code of practice for the preservative treatment of structural timber*

BS 5589 : 1989 *Code of practice for preservation of timber*

BS EN 351-1 : 1996 *Durability of wood on wood-based products — Preservative-treated solid wood — Classification of preservative penetration and retention*

BS EN 927-1 : 1997 *Paints and varnishes — Coating materials and coating systems for exterior wood — Classification and selection*

BS EN ISO 9001 : 2000 *Quality management systems — Requirements*

## Conditions of Certification

### 18 Conditions

18.1 This Certificate:

- (a) relates only to the product that is named, described, installed, used and maintained as set out in this Certificate;
- (b) is granted only to the company, firm or person identified on the front cover — no other company, firm or person may hold or claim any entitlement to this Certificate;
- (c) is valid only within the UK;
- (d) has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective;
- (e) is copyright of the BBA;
- (f) is subject to English law.

18.2 References in this Certificate to any Act of Parliament, Regulation made thereunder, Directive or Regulation of the European Union, Statutory Instrument, Code of Practice, British Standard, manufacturers' instructions or similar publication, are references to such publication in the form in which it was current at the date of this Certificate.

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

- (a) are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA;

(b) continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine; and

(c) are reviewed by the BBA as and when it considers appropriate.

18.4 In granting this Certificate, the BBA is not responsible for:

- (a) the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product;
- (b) the right of the Certificate holder to market, supply, install or maintain the product; and
- (c) the actual works in which the product is installed, used and maintained, including the nature, design, methods and workmanship of such works.

18.5 Any recommendations relating to the use or installation of this product which are contained or referred to in this Certificate are the minimum standards required to be met when the product is used. They do not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate or in the future; nor is conformity with such recommendations to be taken as satisfying the requirements of the 1974 Act or of any present or future statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the installation and use of this product.



In the opinion of the British Board of Agrément, Johnstone's Woodworks Exterior Satin Finish Woodstain is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 97/3412 is accordingly awarded to Kalon Decorative Products.

On behalf of the British Board of Agrément

Date of Third issue: 13th July 2005

A handwritten signature in black ink, appearing to read 'G. A. Cooper'.

Chief Executive

*\*Original Certificate issued on 27th April 1998. This amended version includes the updated titles to the Building Regulations and a reference to the Northern Ireland CDM Regulations and new Conditions of Certification.*