



## Kalon Decorative Coatings

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**Agrément  
Certificate  
No 97/3440**  
Third issue\*

Designated by Government  
to issue  
European Technical  
Approvals

## JOHNSTONE'S STORMSHIELD FLEXIBLE EXTERIOR GLOSS SYSTEM

Enduit de surface  
Oberflächenbeschichtung

## Product



- THIS CERTIFICATE RELATES TO JOHNSTONE'S STORMSHIELD FLEXIBLE EXTERIOR GLOSS SYSTEM, COMPRISING JOHNSTONE'S STORMSHIELD FLEXIBLE EXTERIOR GLOSS AND JOHNSTONE'S STORMSHIELD FLEXIBLE EXTERIOR PRIMER/ UNDERCOAT.

- The system can be applied by roller, brush or conventional spray and is suitable for external or internal use.

- The system is suitable as a decorative/protective surface coating for joinery 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 British Board of Agrément, no other restrictions exist on the use of Johnstone's Stormshield Flexible Exterior Gloss System.

### 2 The Building Standards (Scotland) Regulations 1990 (as amended)



These Regulations restrict the situations where timber cladding can be used. Where timber is permitted, the BBA considers the use of Johnstone's Stormshield Flexible Exterior Gloss System 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 Stormshield Flexible Exterior Gloss System 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 (5.3 and 5.4), 6 Delivery and site handling (6.3), and 12 General (12.3).

### 5 Description

5.1 Johnstone's Stormshield Flexible Exterior Gloss System comprises Johnstone's Stormshield Flexible Exterior Gloss and Johnstone's Stormshield Flexible Exterior Primer/Undercoat. These are solvent-based paints for internal or external use, available in a range of standard colours, details of which are available from the Certificate holder.

5.2 Certain stockists are equipped with the manufacturer's in-store tinting machines.

5.3 The products are solutions of an alkyd-based resin in white spirit containing pigments, biocide and other additives.

5.4 Johnstone's Woodworks Universal Primer is a white spirit-based product used as a pre-treatment for weathered wood surfaces and is approved for this use under the Control of Pesticides Regulations 1986 (HSE No 7070).

### 6 Delivery and site handling

6.1 The products are supplied in 2.5 litre containers, each bearing the manufacturer's name, date code, and the BBA identification mark incorporating the number of this Certificate.

6.2 Johnstone's Woodworks Universal Primer is also supplied in 2.5 litre containers.

6.3 The products are flammable with a flashpoint 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.

## Design Data

### 7 General

Johnstone's Stormshield Flexible Exterior Gloss System is satisfactory for application to external and internal wood, as a decorative/protective coating:

- on new planed timbers, ie external or internal joinery or planed timber cladding
- as redecoration for an existing painted surface, prepared in accordance with section 14.5
- for a weathered timber surface, treated with Johnstone's Woodworks Universal Primer, requiring redecoration and prepared in accordance with section 15.

### 8 Water vapour resistance

The three- or four-coat Johnstone's Stormshield Flexible Exterior Gloss System is permeable to water vapour.

### 9 Control of substrate moisture content

9.1 In painted joinery, water normally enters the substrate through joints and defects in the paint film. Therefore, the substrate can 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 With Johnstone's Stormshield Flexible Exterior Gloss System there is less impediment to natural drying and the substrate will dry more readily after exposure to wet conditions. Consequently, unpreserved timber coated with the system may decay less readily than with a conventional paint coating.

### 10 Maintenance

A surface already coated with the system can normally be prepared for redecoration by washing with detergent solution and rinsing. If necessary, the surface is spot-primed with Johnstone's Stormshield Flexible Exterior Primer/Undercoat. If it is to be repainted with the same colour, it is given a single coat of Johnstone's Stormshield Flexible Exterior Gloss. If it is to be repainted with a contrasting colour, a second coat may be required.

### 11 Durability

11.1 Applied properly, the Johnstone's Stormshield Flexible Exterior Gloss System will perform satisfactorily and retain good colour and gloss for six years.

11.2 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

### 12 General

12.1 Application should be carried out in accordance with the relevant clauses of BS 6150 : 1991 and BS 8000-12 : 1989.

12.2 The products should not be applied during rain, if rain is imminent, nor at temperatures below 5°C.

12.3 Care must be taken to provide adequate ventilation during internal applications or when working in confined spaces.

12.4 The products should be stirred well prior to application.

### 13 Preparation

13.1 Timbers should be free from defects and resin exudation. Planed timbers should have rounded or bevelled edges.

13.2 New timbers should be pre-treated with an overpaintable preservative in accordance with BS 5589 : 1989, BS 5268-5 : 1989 or BS EN 351-1 : 1996. The heartwood of durable hardwood species does not require preservative treatment.

13.3 The timber must be free from residual solvent (if an organic solvent preservative is used) or be adequately dry (if a water-based preservative is used).

## 14 Application

### New work

14.1 Any holes are filled with proprietary exterior filler, which is allowed to cure and is lightly sandpapered. Knots are treated with two coats of shellac knotting and allowed to dry. Exposed nail heads are primed with a metal primer. Windows are glazed either with beading or with a glazing compound. Linseed-oil putty should be allowed to form a hard skin before painting.

14.2 A first coat of Johnstone's Stormshield Flexible Exterior Primer/Undercoat is applied by brush or spray to achieve a coverage of approximately 12 m<sup>2</sup> per litre.

14.3 The following day, a coat of Johnstone's Stormshield Flexible Exterior Gloss should be applied by brush, roller or spray at a coverage of between 15 m<sup>2</sup> and 17 m<sup>2</sup> per litre. Further coats are applied on successive days, as required. Two coats are normally sufficient, but three should be applied in severely exposed locations.

14.4 For spray application, Johnstone's Stormshield Flexible Exterior Gloss should be diluted with up to 10% of white spirit.

### Redecoration — conventional alkyd gloss in reasonable condition

14.5 Loose or flaking paint is removed by scraping, and any holes filled. The surface is washed, sanded to give a smooth finish, rinsed and any exposed timber is treated with Johnstone's Woodworks Universal Primer and allowed to dry. The treated areas are then primed with Johnstone's Stormshield Flexible Exterior Primer/Undercoat.

14.6 Finally, one coat each of Johnstone's Stormshield Flexible Exterior Primer/Undercoat and Johnstone's Stormshield Flexible Exterior Gloss are applied as described in sections 14.2 to 14.4.

### Redecoration — existing weathered timbers

14.7 All flaking paint and weathered wood is removed by sanding. Any holes are filled, allowed to cure and sanded as described in section 14.1. Johnstone's Woodworks Universal Primer is applied by brush and allowed to dry overnight. The coating system is applied as described in sections 14.2 to 14.4.

## Technical Investigations

The following is a summary of the technical investigations carried out on Johnstone's Stormshield Flexible Exterior Gloss System.

### 15 Tests

15.1 Samples were tested to determine:

- flashpoint
- ease of application
- colour stability and resistance to artificial weathering
- extensibility of applied film
- water vapour permeability
- resistance to wind-driven rain
- ease of overcoating
- resistance to blocking.

15.2 Existing test reports were examined relating to resistance to fungal growth.

### 16 Investigations

A re-examination was made of existing data relating to the previous assessment of associated products.

## Additional Information

The management systems of the manufacturer have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2000 by 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 the preservation of timber*

BS 6150 : 1991 *Code of practice for painting of buildings*

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

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

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

## Conditions of Certification

### 17 Conditions

17.1 This Certificate:

- (a) relates only to the product that is 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.

17.2 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.

17.3 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.

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

- (a) the presence or absence of any patent 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 nature or standard of individual installations of the product or any maintenance thereto, including methods and workmanship.

17.5 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 Stormshield Flexible Exterior Gloss System is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 97/3440 is accordingly awarded to Kalon Decorative Coatings.

On behalf of the British Board of Agrément

Date of Third issue: 5th July 2004

A handwritten signature in black ink, appearing to read 'P. Q. Newson', is written over a light grey background.

Chief Executive

*\*Original Certificate issued 30th December 1997. This amended version includes references to revised British Standards, revision of Durability statement, information on new work applications and new Conditions of Certification.*