



Kalon Decorative Products

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**Agrément
Certificate
No 95/3145**

*Third issue**

Designated by Government
to issue
European Technical
Approvals

JOHNSTONE'S STORMSHIELD PLIOLITE-BASED MASONRY FINISH

Enduit de surface
Oberflächenbeschichtung

Product



• THIS CERTIFICATE RELATES TO JOHNSTONE'S STORMSHIELD PLIOLITE⁽¹⁾-BASED MASONRY FINISH.

• The product can be applied by roller, brush or spray and is suitable for internal or external use.

• The product is suitable for application to a wide range of materials. See section 7 of this Certificate.

(1) Pliolite is a registered trademark of Eliokem.

Regulations

1 The Building Regulations 2000 (England and Wales)

The Secretary of State has agreed with the British Board of Agrément the aspects of performance to be used by the BBA in assessing the compliance of masonry paints with the Building Regulations. In the opinion of the BBA, Johnstone's Stormshield Pliolite-Based Masonry Finish, if used in accordance with the provisions of this Certificate, will meet the relevant requirements.

| | |
|---------------------------|---|
| Requirement: B2 | Internal fire spread (linings) |
| Requirement: B4(1) | External fire spread |
| Comment: | The product applied to non-combustible substrates has a Class 0 surface and its use on these substrates is unrestricted by these Requirements. See section 9.1 of this Certificate. |
| Requirement: Regulation 7 | Materials and workmanship |
| Comment: | The product is an acceptable material. See section 11.1 of this Certificate. |

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

In the opinion of the BBA, Johnstone's Stormshield Pliolite-Based Masonry Finish, if used in accordance with the provisions of this Certificate, will satisfy or contribute to satisfying the various Regulations and related Technical Standards as listed below.

| | |
|----------------|--|
| Regulation: 10 | Fitness of materials and workmanship |
| Standard: B2.1 | Selection and use of materials, fittings and components and workmanship |
| Comment: | The product is an acceptable material. See section 11.1 of this Certificate. |

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| | | |
|-------------|-------|--|
| Regulation: | 12 | Structural fire precautions |
| Standard: | D7.1 | Fire spread on internal linings — Principles |
| Standard: | D10.1 | Fire spread on the external wall — Principles |
| Comment: | | The product applied to non-combustible substrates has a low risk surface as defined in Table 3 to (D1.3) of the Technical Standards and its use on these substrates is unrestricted under this Regulation and Standard. See section 9.1 of this Certificate. |

3 The Building Regulations (Northern Ireland) 2000



In the opinion of the BBA, Johnstone's Stormshield Pliolite-Based Masonry Finish, if used in accordance with the provisions of this Certificate, will satisfy the various Building Regulations as listed below.

| | | |
|-------------|----|--|
| Regulation: | B2 | Fitness of materials and workmanship |
| Comment: | | The product is an acceptable material. See section 11.1 of this Certificate. |
| Regulation: | E3 | Internal fire spread — Linings |
| Regulation: | E5 | External fire spread |
| Comment: | | The product applied to non-combustible substrates has a Class 0 surface as defined in Technical Booklet E : 1994 : Section 2.4 and its use on these substrates is unrestricted under these Regulations. See section 9.1 of this Certificate. |

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 (5.4) and 6 Delivery and site handling.*

Technical Specification

5 Description

5.1 Johnstone's Stormshield Pliolite-Based Masonry Finish is for internal or external use on the substrates defined in section 7 of this Certificate. It is available in a range of colours, largely to BS 4800 : 1989, details of which are available from the Certificate holder.

5.2 The product is based on a solution of Pliolite resin in solvent and contains pigments, extenders, biocides and other additives.

5.3 The product is manufactured by a batch-blending process. Quality control is exercised on the basic raw materials, during the production process, and on the final product.

5.4 Johnstone's Performance Coatings Sterilisation Wash is used to prepare weathered surfaces showing signs of organic growth. This product has been approved under the Control of Pesticides Regulations 1986 for its intended use (HSE No 7359).

6 Delivery and site handling

6.1 The product is supplied in 5 litre containers bearing the manufacturer's name, batch number, and the BBA identification mark incorporating the number of this Certificate.

6.2 The product has a shelf-life of two years. No degradation of the material occurs but there may be some settling. Partly-used containers can be re-stored provided they are airtight.

6.3 The product is flammable, with a flashpoint exceeding 32°C, and should be stored in a cool place, away from naked flames.

Design Data

7 General

7.1 Johnstone's Stormshield Pliolite-Based Masonry Finish is satisfactory for application by roller, brush or spray to internal and external walls, ceilings 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⁾
- renderings (sand/cement and sand/lime/cement)
- calcium silicate or fibre-reinforced cement sheets or insulation boards
- surfaces painted with gloss, oil or emulsion paints.

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

7.2 The assessment on external walls covers the face of the wall above dpc level, and excludes horizontal surfaces such as ledges, sills and copings. Parapet walls must have effective dpc's in the correct positions.

7.3 The effect of pretreatments or an existing coating on the surface's fire properties are defined in section 9 of this Certificate.

8 Permeability

8.1 When tested by the dynamic sweep gas method to BS 7406 : 1991(1996) (ISO 9932 : 1990) a sample of the product, on fibre-reinforced cement, gave a water vapour resistance of 0.53 MNsg⁻¹.

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8.2 The coating tends to shed water and considerably reduces the amount of water that can be absorbed by the substrate during rain.

9 Properties in relation to fire



9.1 The product applied without pretreatment to the non-combustible substrates listed in section 7.1(a) to (e) has a Class 0 or low risk surface as defined in the various Building Regulations or Technical Standards for compliance with these regulations.

9.2 This performance may not be achieved if the product is applied over a previous paint coating.

10 Maintenance

10.1 The coating will withstand frequent washing without deterioration. A soft bristle brush should be used.

10.2 For re-coating, normally it is neither necessary nor possible to remove the existing coating completely. The surface should be prepared by washing or brushing, and may be re-coated with Johnstone's Stormshield Pliolite-Based Masonry Finish. Redecoration with oil, gloss or cement paints is not possible.

11 Durability



11.1 In normal conditions two coats of Johnstone's Stormshield Pliolite-Based Masonry Finish, properly applied to the substrates listed in section 7, will have good colour stability and will perform satisfactorily for up to 15 years.

11.2 In industrial atmospheres the coating may become dirty and, to maintain its appearance, it may be necessary to clean or re-coat more frequently.

11.3 There will be a gradual change in colour which will not be excessive, but the coating 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.

11.4 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

12 General

Application should be carried out generally in accordance with BS 6150 : 1991 and BS 8000-12 : 1989.

13 Preparation

13.1 The substrates listed in section 7 should be sound, free from dirt and grease and reasonably dry. Joints in new brickwork and blockwork should be finished flush. Mortar joints in existing work should be repointed if necessary and allowed to cure.

13.2 The product can bridge hairline cracks in the substrate but larger cracks should be filled and patched in accordance with the Certificate holder's instructions.

13.3 Any organic growth should be removed mechanically from old surfaces, and Johnstone's Performance Coatings Sterilisation Wash applied and allowed to dry.

13.4 If the substrate is chalking, absorbent, friable, or has been decorated previously, any loose material should be removed with a stiff brush. A priming coat of Johnstone's Stormshield Pliolite-Based Masonry Finish diluted 15% with white spirit should be applied and allowed to dry overnight before the coating is applied.

14 Application

14.1 The product is applied by roller or brush in two coats and can also be spray applied. The Certificate holder can advise on suitable types of spray equipment.

14.2 The product should not be applied in wet weather, nor to a frosted surface.

14.3 The coverage achieved will depend on the texture and suction of the substrate; normally it will be between 6 m² and 10 m² per litre per coat.

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

14.5 The product is recoatable overnight. During the drying period the coating has some tolerance to showers.

Technical Investigations

The following is a summary of the technical investigations carried out on Johnstone's Stormshield Pliolite-Based Masonry Finish.

15 Tests

15.1 Samples on various primed and unprimed substrates were tested in accordance with MOAT No 33 : 1986 to determine:

extensibility
water vapour permeability
resistance to artificial weathering.

15.2 An examination was made of existing data relating to:

flashpoint
resistance to rain penetration
effect of water immersion
effect of alkali immersion
resistance to impact
resistance to abrasion
adhesion to substrates
resistance to algal growth
surface spread of flame
fire propagation.

16 Other investigations

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

Additional Information

The management systems of Kalon Decorative Products have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 1994 by the British Standards Institution Quality Assurance (Certificate No FM01265).

Bibliography

- BS 4800 : 1989 *Schedule of paint colours for building purposes*
- BS 6150 : 1991 *Code of practice for painting of buildings*
- BS 7406 : 1991(1996) *Methods for determination of water vapour transmission rate of sheet materials (paper and board) by dynamic sweep and static gas methods*
- BS 8000-12 : 1989 *Workmanship on building sites — Code of practice for decorative wallcoverings and painting*
- BS EN ISO 9001 : 1994 *Quality systems — Model for quality assurance in design, development, production, installation and servicing*
- MOAT No 33 : 1986 *The assessment of masonry coatings*

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) has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective;
- (d) is copyright of the BBA.

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, shall be construed as 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 fabricating process(es) 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 by the BBA or its agents; and
- (c) are reviewed by the BBA as and when it considers appropriate.

17.4 In granting this Certificate, the BBA makes no representation as to:

- (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 of individual installations of the product, 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 Pliolite-Based Masonry Finish is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 95/3145 is accordingly awarded to Kalon Decorative Products.

On behalf of the British Board of Agrément

A handwritten signature in black ink, appearing to read 'P. Q. Hewson'.

Date of Third issue: 22nd March 2002

Chief Executive

**Original Certificate was awarded 1st June 1995. This amended version includes change of name of the Certificate holder and revised Building Regulations, addition of CDM Regulations and updated Conditions of Certification.*