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Agrément Certificate
97/3440
Product Sheet 1

PPG ARCHITECTURAL COATINGS UK LIMITED PAINT SYSTEMS

JOHNSTONE'S STORMSHIELD FLEXIBLE EXTERIOR GLOSS SYSTEM

This Agrément Certificate Product Sheet⁽¹⁾ relates to the Johnstone's Stormshield Flexible Exterior Gloss System, for use as a decorative/protective coating for joinery or planed timber cladding in interior and exterior applications.

(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

Control of substrate moisture content — the system is permeable to moisture vapour, and therefore the moisture content of the painted timber is more likely to remain stable (see section 6).

Durability — in normal conditions, the system will have good colour stability and perform satisfactorily for up to six years (see section 8).

The BBA has awarded this Certificate to the company named above for the system described herein. This system 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

Simon Wroe
Head of Approvals — Materials

Greg Cooper
Chief Executive

Date of First issue: 31 October 2012

Originally certified on 30 December 1997

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

These Regulations restrict the situations where timber cladding can be used. Where timber is permitted, the BBA considers the use of the Johnstone's Stormshield Flexible Exterior Gloss System to be unrestricted:



The Building Regulations 2010 (England and Wales)



The Building (Scotland) Regulations 2004 (as amended)



The Building Regulations (Northern Ireland) 2012

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See sections: 1 *Description* (1.1), 3 *Delivery and site handling* (3.3) and 4 *Use* (4.4) of this Certificate.

Additional Information

NHBC Standards 2011

NHBC accepts the use of the Johnstone's Stormshield Flexible Exterior Gloss System, when installed and used in accordance with this Certificate, in relation to *NHBC Standards, Chapter 8.5 Painting and decorating*.

Technical Specification

1 Description

1.1 The Johnstone's Stormshield Flexible Exterior Gloss System comprises Johnstone's Stormshield Flexible Gloss and Johnstone's Stormshield Flexible Primer Undercoat, resin based paints containing pigments, solvents and additives.

1.2 Ancillary items include Johnstone's Woodworks Universal Primer, a white spirit based product used as a pre-treatment for weathered wood surfaces and approved for this use under the *Control of Pesticides (Amendment) Regulations 1997* (HSE No 7359).

2 Manufacture

2.1 The system products are 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 Certificate holder 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 PPG Architectural Coatings UK Limited have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 and BS EN ISO 14001 : 2004 by BSI (Certificates FMO 1265 and EMS 73683).

3 Delivery and site handling

3.1 Johnstone's Stormshield Flexible Gloss is supplied in 1 litre and 2.5 litre containers and Johnstone's Stormshield Flexible Primer Undercoat in 1 litre containers, each bearing the manufacturer's name, date code, and the BBA identification mark incorporating the number of this Certificate. White Johnstone's Stormshield Flexible Gloss is also available in 5 litre containers.

3.2 Johnstone's Woodworks Universal Primer is supplied in 1 litre containers, bearing the manufacturer's name and date code.

3.3 The system products have a flashpoint of 40°C and are classified as 'flammable' under *The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP4)/Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulations) 2009*. They should be stored in a cool place, away from naked flames.

Assessment and Technical Investigations

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

Design Considerations

4 Use

4.1 The Johnstone's Stormshield Flexible Exterior Gloss System is satisfactory for use as a decorative/protective coating applied to exterior and interior wood, including:

- new planed timbers, ie exterior or interior joinery or planed timber cladding
- weathered timber surfaces pre-treated with Johnstone's Woodworks Universal Primer, requiring redecoration and prepared in accordance with section 11.5.

4.2 The system may also be used as redecoration for existing painted surfaces prepared in accordance with section 11.6.

4.3 The system should not be applied during rain, if rain is imminent, or at temperatures below 5°C.

4.4 Care must be taken to provide adequate ventilation when working in confined spaces.

5 Practicability of installation

The system can be readily applied by operatives familiar with this type of system.

6 Control of substrate moisture content

The three or four coat Johnstone's Stormshield Flexible Exterior Gloss System is permeable to water vapour, and as a result the moisture content of the painted timber is more likely to remain stable.

7 Maintenance

The system does not require maintenance.

8 Durability

8.1 Under normal conditions the Johnstone's Stormshield Flexible Exterior Gloss System will perform satisfactorily and retain good colour and gloss for a period of six years.

8.2 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

9 General

9.1 Application of the Johnstone's Stormshield Flexible Exterior Gloss System should be carried out in accordance with the relevant Clauses of BS 6150 : 2006 and BS 8000-12 : 1989.

9.2 The system products must be stirred well prior to application.

10 Preparation

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

10.2 New timbers should be pre-treated with a preservative which can be overpainted in accordance with BS 8417 : 2011 or BS EN 351-1 : 2007. The heartwood of durable hardwood species does not require preservative treatment.

10.3 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).

11 Application

New work

11.1 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.

11.2 A first coat of Johnstone's Stormshield Flexible Primer Undercoat is applied by brush or spray to achieve a coverage of approximately 12 m² per litre.

11.3 The following day, a coat of Johnstone's Stormshield Flexible Gloss is applied by brush, roller or spray at a coverage of between 15 m² and 17 m² per litre. Further coats are applied on successive days as required. Two coats are normally sufficient, but three should be applied in severely exposed conditions.

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

Redecoration – over conventional alkyd gloss in reasonable condition

11.5 Loose or flaking paint is removed by scraping, and any holes are 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 Primer Undercoat.

11.6 Finally, one coat of Johnstone's Stormshield Flexible Gloss is applied.

Redecoration – existing weathered timbers

11.7 All flaking paint and weathered wood is removed by sanding. Any holes are filled, allowed to cure and sanded as described in section 11.1. Johnstone's Woodworks Universal Primer is applied by brush and allowed to dry overnight. The coating system is applied as described in sections 11.2 to 11.4.

Technical Investigations

12 Tests

12.1 Samples of Johnstone's Stormshield Flexible Primer Undercoat and Gloss were tested and the results assessed 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.

12.2 Existing test reports were evaluated relating to resistance to fungal growth.

13 Investigations

13.1 Visits were made to established sites where the system had been used.

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

Bibliography

BS 8417 : 2011 *Preservation of wood – Code of practice*

BS 6150 : 2006 *Painting of buildings – Code of practice*

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

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

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

BS EN ISO 14001 : 2004 *Environmental management systems – Requirements with guidance for use*

14 Conditions

14.1 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.

14.2 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.

14.3 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.

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

14.5 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.

14.6 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.