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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2007

Notified Body No:

0833

Product Name:

Harlequin Hi-Shine

Report No:

189878

Issue No:

2

Prepared for:

British Harlequin plc.
Festival House
Chapman Way
Tunbridge Wells
Kent
TN2 3EF

Date:

11th January 2010

1. Introduction

This classification report defines the classification assigned to "Harlequin Hi-Shine", a vinyl floorcovering material, in accordance with the procedures given in EN 13501-1:2007.

2. Details of classified product

2.1 General

The product, "Harlequin Hi-Shine", a vinyl floorcovering material is defined as being suitable for floorcovering applications.

2.2 Product description

The product, "Harlequin Hi-Shine" is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A PVC floorcovering material adhered to one face of a nominally 6mm thick fibre cement board substrate utilising "Balls F46" adhesive
Thickness of composite		7.5mm (determined by Exova Warringtonfire)
Weight per unit area of composite		12.87kg/m ² (determined by Exova Warringtonfire)
Floor Covering	Product reference	"Harlequin Hi-Shine"
	Generic type	A calendered laminated PVC floorcovering with a hard polymer ultra gloss surface
	Name of manufacturer	British Harlequin plc
	Weight per unit area	1.96kg/m ²
	Thickness	1.5mm
	Colour	"Red" (perpendicular to production direction) & "Black" (production direction)
	Flame retardant details	See Note 1 below
Adhesive	Product reference	"Balls F46"
	Generic type	Pressure sensitive acrylic adhesive
	Name of manufacturer	F. Ball & Co.
	Application rate / thickness	Between 3 and 5 m ² /l
	Application method	"v" notched trowel
	Flame retardant details	See Note 2 below
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800± 200kg/m ³
Brief description of manufacturing process of the floorcovering		A calendered laminating process of PVC and hard polymer surface

Note 1. The sponsor of the test was unwilling to provide this information.

Note 2. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova Warringtonfire	British Harlequin plc	WF 188744	EN ISO 9239-1
Exova Warringtonfire	British Harlequin plc	WF 188745	EN ISO 11925-2

3.2 Test results

Test method & test number		Parameter	No. tests	Results	
				Continuous parameter - mean (m)	Compliance with parameters
EN ISO 9239-1		Critical flux	3	≥ 10.8	Compliant
		Smoke		120.41	Compliant
EN ISO 11925-2	(15s exposure - surface)	F _s	6	50mm	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure - edge)	F _s	6	32mm	Compliant
		Flaming droplets/ particles		None	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2007

4.2 Classification

The product, "Harlequin Hi-Shine", a vinyl floorcovering material, in relation to its reaction to fire behaviour is classified:

B_{FL}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B_{FL}	-	s	1

i.e. **B_{FL} – s1**

Reaction to fire classification: B_{FL}– s1

4.3 Field of application

This classification is valid for the following end use applications:

- Floorcovering applications bonded directly to any substrate with a minimum density of 1800kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{FL} or better.
- Installed directly to the substrate utilising 'F46' adhesive, applied at a nominal rate of 3-5m²/l.

5. Limitations

This document does not represent type approval or certification of the product.

This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Colour/Pattern	Any variation allowed
Adhesive	No variation allowed
Adhesive application rate	No variation allowed
Adhesive application method	No variation allowed

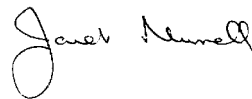
SIGNED



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Matthew Dale
Certification Engineer
Technical Department

APPROVED



.....

Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warringtonfire**

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