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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1: 2009

Notified Body No:

0833

Product Name:

Polysafe Hydro Evolve

Report No:

308511

Issue No:

1

Prepared for:

Polyflor Limited, PO Box 3, Radcliffe New Road, Whitefield, Manchester, M25 7NR

UKAS TESTING 0249

Date:

16th June 2011

1. Introduction

This classification report defines the classification assigned to "Polysafe Hydro Evolve", a PVC based heavy duty safety flooring, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Polysafe Hydro Evolve", a PVC based heavy duty safety flooring, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, "Polysafe Hydro Evolve", a PVC based heavy duty safety flooring, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description of range			PVC based floorcovering, adhered to a 6mm thick fibre cement board substrate utilising 'F44' adhesive
Coated floorcovering	Coating	Generic type	Polyurethane
		Product reference	**See Note 1 below**
		Name of manufacturer	**See Note 1 below**
		Colour	Transparent
		Number of coats	One
		Application rate	10 g/m²
		Application method	Roller
		Specific gravity	1.0
		Flame retardant details	The sponsor of the test has confirmed that no flame retardants were utilised in the production of the product / component.
		Curing process per coat	Confidential
	Floor Covering	Product references	"Polysafe Hydro Evolve"
		Generic type	Polyvinyl Chloride (PVC)
		Name of manufacturer	Polyflor Limited
		Weight per unit area	Between 2.40 kg/m² and 4.40kg/m²
		Thickness	Between 2.0mm and 3.5mm
		Flame retardant details	**See Note 1 below**
Adhesive		Product reference	"Styccobond F44"
		Generic type	Acrylic based adhesive
		Name of manufacturer	F Ball & Co. Ltd.
		Application rate	200g/m²
		Application method	'V' notched trowel
		Flame retardant details	The manufacturer stated that no flame retardant additives were utilised in the construction of the adhesive

Continued on next page

UKAS TESTING
0249

Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m^3
Brief description of manufacturing process of the floor covering		Plastisol spreading / gelling

Note 1: The precise composition of the product submitted for test is regarded by the sponsor to be of a highly confidential nature and as a consequence this information is maintained by Polyflor at their Whitefield factory. This information can be inspected by Exova warringtonfire at anytime and the information is checked, stamped, signed and dated by a member of Exova warringtonfire to prevent misuse.

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 / Classification report Nos.	Test method / extended application rules & date
Exova warringtonfire	Polyflor Limited	WF 189022, WF 188454, WF 182131, WF 308123	EN ISO 11925-2
Exova warringtonfire	Polyflor Limited	WF 189021, WF 189020, WF 188455, WF 182132, WF 308124	EN ISO 9239-1
Exova warringtonfire	Polyflor Limited	WF 189974, WF 189975, WF 189976, WF 189977, WF 189978, WF 189979, WF 189980, WF 189981, WF 189982, WF 189983	EN 13501
Exova warringtonfire	Polyflor Limited	WF 189911, WF 308510	EN/TS 15117

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, 1, 2, 3, 1	10.1, 10.4, ≥11.2, ≥11.0, 9.5	Compliant
		Smoke		110.44, 284.86, 121.65, 160.21, 150.73	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F_s	6, 1, 6, 1	None, None, 60mm, 60mm	Compliant
	(15s exposure – edge of decorative face)	F_s	6, 1, 6, 1	None, None, 50mm, 30mm	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+A1: 2009.

4.2 Classification

The product, "Polysafe Hydro Evolve", a PVC based heavy duty safety flooring, in relation to its reaction to fire behaviour is classified:

B_{FL}

The additional classification in relation to smoke production is:

s1

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0249

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:

i) 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.

ii) Installed directly to the substrate utilising 'F44' adhesive, applied at a nominal rate of 200g/m²

This classification is also valid for the following product parameters:

Floorcovering thickness	2.0 to 3.5mm
Floorcovering weight per unit area	Between 2.40kg/m² and 4.40kg/m²
Colour	Any variation allowed.
Floorcovering composition	No variation allowed, other than the compositions held on the Exova Warringtonfire technical file
Floorcovering construction	With and without surface coating
Adhesive	Acrylic adhesive

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0249

SIGNED

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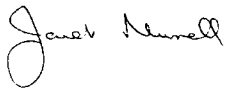
Matthew Dale
Certification Engineer
Technical Department

APPROVED



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Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warrington**fire

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