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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:**

Polysafe Standard / Polysafe  
Standard PUR / Voyager  
Standard PUR / Voyager  
Standard Finish

**Report No:**

189974

**Issue No:**

1

**Prepared for:**

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

**Date:**

20<sup>th</sup> January 2010

## 1. Introduction

This classification report defines the classification assigned to "Polysafe Standard / Polysafe Standard PUR / Voyager Standard PUR / Voyager Standard Finish, a PVC based heavy duty safety flooring, in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The product, "Polysafe Standard / Polysafe Standard PUR / Voyager Standard PUR / Voyager Standard Finish", a PVC based heavy duty safety flooring, is defined as being suitable for floorcovering applications.

### 2.2 Product description

The product, "Polysafe Standard / Polysafe Standard PUR / Voyager Standard PUR / Voyager Standard Finish", 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		Heavy-duty safety flooring, adhered to a 6mm thick fibre cement board substrate utilising 'F44' adhesive
Thickness of composite		7.9 mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area of composite		12.93 kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Floor Covering	Product reference	"Polysafe Standard / Polysafe Standard PUR / Voyager Standard PUR / Voyager Standard Finish"
	Generic type	Polyvinyl Chloride (PVC)
	Batch No.	1G152
	Name of manufacturer	Polyflor
	Weight per unit area	2.43 kg/m <sup>2</sup>
	Thickness	2.0 mm
	Colour	Black (observed by <b>Exova Warringtonfire</b> )
	Shade	"4150 Black Walnut"
Flame retardant details		<b>See Note 1 below</b>
Adhesive	Product reference	"Styccobond F44"
	Generic type	Acrylic based adhesive
	Name of manufacturer	F Ball & Co. Ltd.
	Application rate	200g/m <sup>2</sup>
	Application method	'V' notched trowel
	Flame retardant details	The manufacturer stated that no flame retardant additives were utilised in the construction of the adhesive
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m <sup>3</sup>
Brief description of manufacturing process of the floor covering		Plastisol spreading / gelling

**Note:** 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/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Polyflor Limited	WF 189022 / 188454 / 182131 / 188457	EN ISO 11925-2
Exova warringtonfire	Polyflor Limited	WF 189021 / 189020 / 188455 / 182132 / 188456	EN ISO 9239-1
Exova warringtonfire	Polyflor Limited	WF189911	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, 3	10.1, 10.4, $\geq 11.2$ , $\geq 11.0$ , $\geq 11.3$	Compliant
		Smoke		110.44, 284.86, 121.65, 160.21, 129.27	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F <sub>s</sub>	6, 1, 6, 6	None, None, 60.0, 38.3	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F <sub>s</sub>	6, 1, 6, 6	None, None, 50.0, 33.3	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, "Polysafe Standard / Polysafe Standard PUR / Voyager Standard PUR / Voyager Standard Finish", a PVC based heavy duty safety flooring, in relation to its reaction to fire behaviour is classified:

**B<sub>FL</sub>**

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>B<sub>FL</sub></b>	-	<b>s</b>	<b>1</b>

i.e. **B<sub>FL</sub> – s1**

**Reaction to fire classification: B<sub>FL</sub> – 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/m<sup>3</sup>, having a minimum thickness of 6mm and a fire performance of A2<sub>FL</sub> or better.
- Installed directly to the substrate utilising 'F44' adhesive, applied at a nominal rate of 200g/m<sup>2</sup>

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**

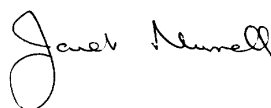


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Technical Department

**APPROVED**



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**Janet Murrell**

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

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