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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 Names:**

Amtico Assura

**Report No:**

190419

**Issue No:**

1

**Prepared for:**

Amtico International  
Kingfield Road  
Coventry  
CV6 5AA

**Date:**

28<sup>th</sup> January 2010

## 1. Introduction

This classification report defines the classification assigned to "Amtico Assura", a decorative laminated polyvinyl chloride (PVC) floor tile, in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The product "Amtico Assura", a decorative laminated polyvinyl chloride (PVC) floor tile, is defined as being suitable for floor covering applications.

### 2.2 Product description

The product "Amtico Assura", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Decorative laminated polyvinyl chloride (PVC) floor tile adhered to a nominally 6mm thick fibre cement board substrate utilising 'Amtico SF' adhesive
Thickness of composite		8.78mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area of composite		12.62kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Floor Covering	Product reference	"Amtico Assura"
	Generic type	PVC floor tile
	Detailed description / composition details	Laminated plasticised PVC
	Name of manufacturer	Amtico International
	Weight per unit area	3.04kg/m <sup>2</sup>
	Thickness	2.5mm
	Colour	"SD-14 (Sandstone)"
	Flame retardant details	<b>See Note 1 below</b>
Adhesive	Product reference	"Amtico SF Adhesive"
	Generic type	Acrylic emulsion
	Name of manufacturer	<b>See Note 2 below</b>
	Application rate	300g/m <sup>2</sup>
	Application method	Notched Trowel (A2)
	Flame retardant details	<b>See Note 1 below</b>
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m <sup>2</sup>
Brief description of manufacturing process of the floor covering		Film production by calender followed by heat and pressure lamination of separate layers.

Note 1. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

Note 2. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

### 3. Test reports & test results in support of classification.

#### 3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	The Amtico Company Limited	WF 189514	EN ISO 11925-2
Exova warringtonfire	The Amtico Company Limited	WF 189515	EN ISO 9239-1

#### 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	10.6	Compliant	
	Smoke		206.70	Compliant	
EN ISO 11925-2	15s exposure – surface of decorative face	6	F <sub>s</sub>	50	Compliant
			Flaming droplets/ particles	None	Compliant
	15s exposure – edge of decorative face	6	F <sub>s</sub>	36.7	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 "Amtico Assura", a decorative laminated polyvinyl chloride (PVC) floor tile, 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:

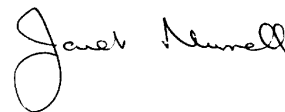
- i) Flooring applications, used over any substrate with a density equal to or greater than 1800Kg/m<sup>3</sup>, having a minimum thickness of 6mm and a fire performance of A2<sub>FL</sub> or better.
- ii) Installed utilising "Amtico SF", an acrylic based flooring adhesive at an application rate of 300 g/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
Colour/Pattern	Any variation allowed
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed
Floorcovering installation	No variation allowed

**SIGNED**

**APPROVED**



.....  
**Matthew Dale**  
Certification Engineer  
Technical Department

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

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