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Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Product Name:

"Zenova FP"

Report No:

WF 437267

Issue No:

1

Prepared for:

Zenova Ltd,
101 Kings Road,
Brentwood,
CM14 4DR

Date:

18th June 2021

1. Introduction

This classification report defines the classification assigned to “Zenova FP”, a water based intumescent paint, in line with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product, “Zenova FP”, a water based intumescent paint, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Zenova FP”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		ZENOVA FP Painted on Plywood
Product reference of overall composite		“Zenova FP”
Name of manufacturer of overall composite		Zenova Ltd
Thickness of overall composite		9.74mm(determined by Warringtonfire)
Weight per unit area of overall composite		6.29kg/m^2 (determined by Warringtonfire)
Coating (test face)	Generic type	Water-based intumescent paint consisting of a mixture of polymers, dispersants and organic compounds
	Product reference	“Zenova FP”
	Name of manufacturer	Zenova Ltd
	Colour reference	“White”
	Number of coats	One
	Application rate	550ml /m^2
	Thickness	0.75mm
	Specific gravity	0.75 + - 0.05
	Application method	Spray gun
	Curing process per coat	2 hours per coat under controlled temperature max 24 hrs
	Flame retardant details	**See Note 1 below**
Substrate	Generic type	Non flame retardant grade plywood which complied BS EN 13238: 2010
	Product reference	“Plywood”
	Name of manufacturer	**See Note 2 below**
	Thickness	9mm
	Density	450kg/m^3
Brief description of manufacturing process		**See Note 2 below**

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

Note 2: The sponsor was unwilling to provide this information.

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

3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
Warringtonfire	Zenova Ltd	WF 500656	EN ISO 11925:2020
Warringtonfire	Zenova Ltd	WF 500655	BS EN 13823:2020

3.2 Test results

Test method & test number	Parameter		No. tests	Results	
				Continuous parameter - Max/Mean (m)	Compliance parameters
BS EN 13823	FIGRA $_{0.2MJ}$		3	0.00 W/s	-
	FIGRA $_{0.4MJ}$			0.00 W/S	-
	THR $_{600s}$			0.64 MJ	-
	SMOGRA			20.95 m^2s^2	-
	TSP_{600s}			56.75 m^2	-
	Lateral Flame Spread to End of Specimen?			-	Compliant
	Fall of Flaming Drop/Particle?			-	Compliant
	Flaming of Fallen Particle Exceeding 10s?			-	Compliant
EN ISO 11925-2	30s exposure - surface	F_s	6	-	Compliant < 40 mm
		Flaming droplets/ particles		-	Compliant
	30s exposure – edge	F_s		-	Compliant < 15 mm
		Flaming droplets/ particles		-	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1.

4.2 Classification

The product, “Zenova FP”, a water based intumescent paint, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	2	,	d	0

i.e. B - s2 , d0

Reaction to fire classification: B - s2, d0

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications with the coating system applied over any timber based substrate with a minimum density of 300kg/m^3, having a minimum thickness of 8mm and a fire performance of D-s2,d0 or better

ii) Construction applications with the coating system applied over any end use substrate with a minimum density of 300kg/m^3, having a minimum thickness of 8mm and a fire performance of A2-s1,d0 or better

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product density	No variation allowed
Product colour	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

5. Limitations

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

SIGNED

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Katie Williams
Certification Engineer
Technical Department

APPROVED

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Stacey Deeming
Principal Engineer
Technical Department
On behalf of **Warringtonfire**