Warringtonfire
Holmesfield Road
Warrington
WA1 2DS

T: +44 (0)1925 655 116
info.warrington@warringtonfire.com
warringtonfire.com

Title:

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

Notified Body No:

0833

Product Name:

"Cementitious Overlay"

Report No:

WF 417974

Issue No:

1

Prepared for:

Elite Crete Systems

1151 Transport Drive
Valparaiso
IN 46383

Date:

21st October 2019

1. Introduction

This classification report defines the classification assigned to “Cementitious Overlay”, a polymer modified cement, in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product, “Cementitious Overlay”, is defined as being suitable for floorcovering applications.

2.2 Product description

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

General description		Polymer modified cement coating system applied to a cement board substrate
Product reference		“Cementitious Overlay”
Name of manufacturer		Elite Crete Systems
Thickness		12.7mm (stated by sponsor) 12.41mm (determined by Warringtonfire)
Weight per unit area		18.99kg/m² (determined by Warringtonfire)
Top coat	Generic type	Polymer modified cement
	Product reference	“MICRO-FINISH™”
	Name of manufacturer	Elite Crete Systems
	Colour reference	“Grey”
	Number of coats	1
	Thickness	0.125 mm
	Density / specific gravity	**See Note 1 below**
	Application method	Trowel applied
	Curing process per coat	Ambient temperature cure
	Flame retardant details	**See Note 2 below**
Finish coat	Generic type	Polymer modified cement
	Product reference	“TEXTURE-PAVE™”
	Name of manufacturer	Elite Crete Systems
	Colour reference	“Grey”
	Number of coats	1
	Thickness	4.5 mm
	Density / specific gravity	**See Note 1 below**
	Application method	Squeegeed then gage raked
	Curing process per coat	Ambient temperature cure
	Flame retardant details	**See Note 2 below**

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Base coat	Generic type	Polymer modified cement
	Product reference	"THIN-FINISH™"
	Name of manufacturer	Elite Crete Systems
	Colour reference	"Grey"
	Number of coats	1
	Thickness	1.725 mm
	Density / specific gravity	**See Note 1 below**
	Application method	Squeegee applied
	Curing process per coat	Ambient temperature cure
	Flame retardant details	**See Note 2 below**
Substrate	Generic type	Cement backer board
	Product reference	"HardieBacker™"
	Detailed description	Cement/sand mix
	Name of manufacturer	JamesHardie™
	Thickness	6.35mm
	Density	**See Note 1 below**
	Colour reference	"Grey"
	Flame retardant details	**See Note 1 below**
Brief description of manufacturing process		Polymer modified cement applied to cement backer board; trowelled for finish

Note 1: The sponsor was unable 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.

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
warringtonfire	Elite Crete Systems	WF 417938	EN ISO 11925-2
warringtonfire	Elite Crete Systems	WF 417933	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	≥11.0 kW/m²	Compliant
		Smoke		6.07 %min	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F_s	6	Nil	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F_s	6	Nil	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 13501-1:2018.

4.2 Classification

The product, “Cementitious Overlay”, a polymer modified cement, 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:

i) Floorcovering applications as constructed

This classification is also valid for the following product parameters:

Coating / substrate thickness	No variation allowed
Coating / substrate weight per unit area	No variation allowed
Coating / substrate composition	No variation allowed
Floorcovering construction	No variation allowed
Colour/Pattern	Any variation allowed

5. Limitations

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

SIGNED

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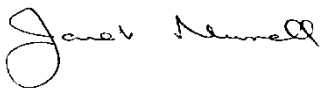
Matthew Dale
Senior Certification Engineer
Technical Department

APPROVED



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

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