REPORT
issued by an Accredited Testing Laboratory

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1002
ISO/IEC 17025

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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "Acoustics" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "Acoustics" is defined as an anti-condensation coating. Its classification is valid for end use application as surface finish on steel.

2.2 Product description

The product, Acoustics, is fully described.

According to the client:

Noise damping coating called "Acoustics", consisting of water based styrene-acrylic resin and perlite. Painted on a galvanized steel sheet with a nominal thickness of 0.9 mm and a nominal density of 7.2 g/cm^3.

The amount of paint on the galvanized sheet is 1.2 kg/m² (0.6 kg/m² dry basis). The paint has a nominal density of 1.3 g/cm³.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Tikkurila Drytech AB	5P02939-01	EN ISO 1716
SP	Tikkurila Drytech AB	5P02939-2	EN 13823

SP 302

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		84	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		62	Compliant
	$LFS <$ edge		(-)	Compliant
	THR_{600s}, (MJ)		0.9	Compliant
	$SMOGRA$, (m²/s²)		6	Compliant
	TSP_{600s}, (m²)		38	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles
EN ISO 1716		3		
	PCS (MJ/m²) (2)		3.99	Compliant
	PCS (MJ/kg) (4)		0.56	Compliant

(-): not applicable

(2): the parameter for the product when applied on steel (external non-substantial component)

(4): the parameter for the combination as a whole when the product is applied on steel

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "Acoustics" in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

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

d0

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The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production			Flaming Droplets	
A2	-	s	1	,	d	0

<div style="text-align:center">

Reaction to fire classification: *A2-s1,d0*

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4.3   Field of application:

This classification is valid for the following product parameters:

Amount of coating 1.2 kg/m^2 (0.60 kg/m^2 dry basis).

Nominal density of coating: 1.3 g/cm^3.

This classification is valid for the following end use conditions:

Substrates
- Galvanized metal substrate with a melting point equal or greater than 1000 °C and thickness $\geq$ 0.9 mm.

The sample was delivered by the client. SP Fire Research was not involved in the sampling procedure.

5   Limitations

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

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