

Classification of reaction to fire in accordance with EN 13501-1

1 Introduction

This classification report defines the classification assigned to product “Rubbol WP 112 FR with Rubbol WF 33xx” in accordance with the procedure given in EN 13501-1:2018.

2 Details of classified product

2.1 General

The product “Rubbol WP 112 FR with Rubbol WF 33xx” is defined as paint system for wooden panels. Its classification is valid for the following end use application: Painted wooden panel.

According to the owner of this classification report, this product complies with the European product specification EN 14915.

2.2 Product description

The product, “Rubbol WP 112 FR with Rubbol WF 33xx”, is fully described in the test reports provided in support of classification listed in Clause 3.1.

Table 1 Products.

Layer	Material	Paint amount (g/m ²)	Nominal dimensions (mm)	Nominal density (kg/m ³)
1 (top layer)	Rubbol WF 33xx	150 (wet)	45 µm (dry)	-
2	Rubbol WP 112 FR	250 (wet)	90 µm (dry)	
3	Spruce	-	145 x 18	Approx. 470

The product was tested as black, red and white colour.

The paint is applied to the wood panels by spray application or brush application.

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3 Report and results in support of this classification

3.1 Test report

Table 2 Test report and field of application rules forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Akzo Nobel Industrial Coatings AB	O100352-144390-7	EN 13823:2020 and EN ISO 11925-2:2020

3.2 Test results

The test results listed below show the worst case as found in the test programme performed and reported according to the table above. The tests have been carried out on products covering the colour range of the product group according to EGOLF recommendation 003-2016.

Table 3 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		12		
Edge/Surface flame attack*				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		5		
	$FIGRA_{0,2MJ}$ (W/s)		119	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		117	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		6.8	Compliant
	$SMOGRA$, (m^2/s^2)		47	Compliant
	TSP_{600s} , (m^2)		87	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

* : as required to the end use application of the product

(-) : not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2018.

4.2 Classification

The product called “Rubbol WP 112 FR with Rubbol WF 33xx” 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 particles/droplets is:

d0

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	
B	-	s	2	,	d	0

Reaction to fire classification: *B-s2,d0*

4.3 Field of application:

This classification is valid for the following product parameters:

Product description, as specified in 2.2 in this report

Nominal thickness of spruce panel: 18 mm.

Nominal density of spruce panel: 470 kg/m³.

This classification is valid for the following end use conditions:

Substrates:

- Wood based substrates at least 10 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 6 mm thick, having a density of ≥ 510 kg/m³.

Mounting:

- Vertically mounted wooden panels.

Fixings:

- Mechanically fixed.

Joints:

- Horizontal and vertical joints.

Void:

- Wood scantlings creating a cavity ≥ 40 mm.

Range of colours:

- All colours

The sample was delivered by the client. RISE, Fire Technology 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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