Reaction to fire classification report No. 21750C

Owner of the classification report

KOKUN FRANCE SAS

321 avenue Georges Charpak

69700 Givors

France

Introduction

This classification report defines the classification assigned to the product *'R-block'* in accordance with the procedures given in the standard EN 13501-1:2018: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 5 pages and may only be used or reproduced in its entirety

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1. DETAILS OF CLASSIFIED PRODUCT

a) General

The product **R-block** is defined as an 'airtight coating based on a polymer emulsion'.
Its classification is valid for the following end use application(s):
Used as coating for airproofing buildings.

b) Product description

This description is based on information given by the sponsor.

	Nominal values (1)
R-block	
Type of product	Airtight coating based on a polymer emulsion
Manufacturer	Rewah NV
Appearance	Liquid
Density (kg/m³; wet)	1310
Solid content (weight %)	70
Use of fire retardants	Yes
Amount of fire retardants (weight %)	25
Colour	green
End-use application	For airproofing buildings
Application method	Roller (for test), brush or airless
Amount of layers	2 layers
Applied amount (g/m²; wet) per layer	655
Applied amount (g/m²; dry) per layer	458,5
Wet film thickness (mm)	0,5 (per layer)
Dried film thickness (mm)	0,35 (per layer)

(1) Based on the information given by the sponsor

More details (e.g. mounting and fixing) are available in the test report(s) in support of this classification (§2a).

2. TEST REPORTS AND EXAP REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method and date
WFRGENT nv Ghent, Belgium	KOKUN FRANCE SAS	21750A: 15/12/2021	EN ISO 11925-2:2020
WFRGENT nv Ghent, Belgium	KOKUN FRANCE SAS	21750B: 16/12/2021	EN 13823:2020

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class C-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
Edge exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
(*) The material didn't melt nor pull away from the pilot burner. *(1) Based on the results obtained in test report No. 21750A.*						
EN 13823 (2)	$FIGRA_{0,4\,MJ}$ (W/s)		202	(-)	≤ 250	(-)
	$LFS_{<edge}$		(-)	Yes	(-)	Yes
	THR_{600s} (MJ)		3,2	(-)	≤ 15	(-)
	SMOGRA (m²/s²)		28	(-)	≤ 180	(-)
	TSP_{600s} (m²)	3	53	(-)	≤ 200	(-)
	Flaming droplets/particles f < 10 s f > 10 s		(-) (-)	No No	(-) (-)	No No
(2) Based on the results obtained in test report No. 21750B.						

(-) Not applicable.

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

b) Classification

The product **R-block** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
C	s2	d0

c) Field of application

This classification for the product as described in §1b, is valid for the following end use applications:

- Substrate: Euro class A2-s1,d0 or better, excluding paper faced gypsum plasterboards, with a nominal thickness of at least 9 mm and a nominal density of at least 652,5 kg/m³
- Without airgap and joints
- Fixing: painted onto the substrate by means of a roller or brush in an amount of 655 g/m² (wet application) per layer. Also applicable for airless painting.

This classification is valid for the following product parameters:

- Nominal density (wet) : 1310 kg/m³
- Solid content: 70 weight %
- Colour: green
- Use of fire retardants in an amount of 25 weight %
- Number of layers: 2
- Thickness per nominal layer (wet): 0,5 mm

4. RESTRICTIONS

At the time the standard EN 13501-1:2018 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonized standards and technical specifications.

5. WARNING

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

According to the information mentioned by the sponsor on the technical information sheet there was no product standard for CE marking available at the time the classification report for the tested material/product was drafted.
When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for CE marking.

The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

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