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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH UNE-EN 13501-1:2019

Sponsor:	**TOPCRET** Gran Vía de les Corts Catalanes, 828 08013 Barcelona
Prepared by:	**LGAI Technological Center, S.A. (APPLUS)** Campus UAB Ronda de la Font del Carme, s/n E - 08193 Bellaterra (Barcelona)
Product name:	**Baxab NF**
Classification report nº:	**19/21115-2710-2 English Version**
Date of issue:	**14th April, 2020**

1.-INTRODUCTION

This classification report defines the classification assigned to "Baxab NF" in accordance with the procedures given in the UNE-EN 13501-1:2019 standard.

2.- DETAILS OF CLASSIFIED PRODUCT

2.1.-General

The product "Baxab NF" is defined as two-component polymeric cementitious material according to petitioner.

2.2.-Product description

In accordance with the technical specifications provided by the petitioner:

Product trade name: Baxab NF

Two-component polymeric cementitious material.

The product is composed by four layers:
- Layer 1: Microcement base, thickness of 1 mm, superficial density of 1,8 kg/m^2, cement-grey colour and rough appearance.
- Layer 2: Baxab, thickness of 0,40 mm, superficial density of 0,64 kg/m^2, colour to choose and rough appearance.
- Layer 3: Baxab NF, thickness of 0,30 mm, superficial density of 0,54 kg/m^2, colour to choose and smooth appearance.
- Layer 4: Shielding, thickness of 0,1 mm and superficial density of 0,1 kg/m^2.
- Layer 5: Mesh, thickness of 0,2 mm, superficial density of 90 g/m^2, white colour and mesh appearance.

The petitioner did not provided more information.

Fixing system: The test was carried out with product applied onto the substrate (Calcium Silicate board according to standard UNE-EN 13238:2011) by the petitioner.

Manufacturer: TOPCRET, Gran vía de les Corts Catalanes, 828, 08013 Barcelona.

3.-REPORT AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1- Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date
Applus – LGAI	TOPCRET	19/21115-2708-1	UNE-EN ISO 11925-2:2011 19-03-2020
			UNE-EN 13823:2012+A1:2016 11-03-2020

3.2- Results of the Tests

Test Mode	RESULTS – Baxab NF			
	CRITERIA CLASS B	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
UNE-EN-ISO 11925-2:2011	$F_s \leq 150$ mm within 60 s	12	$F_s < 150$ mm	**YES**
	Paper inflammation		NO	**YES**
UNE-EN 13823:2012+A1:2016	$FIGRA_{0.2\,MJ} \leq 120$ W/s	3	93,62	**YES**
	LFS < edge of the sample	3	<to edge	**YES**
	$THR_{600s} \leq 7,5$ MJ	3	0,80	**YES**
	CRITERIA subclass 's1'	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
	SMOGRA ≤ 30 m²/s²	3	4,74	**YES**
	$TSP_{600s} \leq 50$ m²	3	27,01	**YES**
	CRITERIA subclass 'd0'	**Nº TESTS**	**AVERAGE**	**COMPLIANCE**
	Fall of droplets/particles in flames within 600 s	3	NO	**YES**

4.- CLASSIFICATION AND FIELD OF APPLICATION

4.1- Reference of classification

This classification has been carried out in accordance with UNE-EN 13501-1:2019: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

4.2- Classification

The product, Baxab NF, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

Fire Behaviour		Smoke Production			Flaming droplets	
B	-	s	1	,	d	0

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REACTION TO FIRE CLASSIFICATION : B-s1,d0

This classification is only valid for the final conditions of use described in the present report.

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4.3- Field of application

- This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown, with the following parameters being extended:

- Variable parameter 1: SUBSTRATE

After performing the test with the product adhered on calcium silicate substrate with (870 ± 50) kg/m^3 in density, (11 ± 2) mm in thickness, the obtained results are valid for substrates of final use of the classes A1 and A2-s1,d0, according to standard UNE-EN 13238:2011.

- The classification is valid for the following final use applications:

Wall covering.

Substrate	Calcium Silicate board (UNE-EN 13238:2011)
Fixing method	Applied
Joints	No
Air gap	Non ventilated
Others	-

5.- LIMITATIONS

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

Responsible of the Fire Laboratory   Responsible Technician of Reaction to Fire
LGAI Technological Center S.A. (APPLUS)   LGAI Technological Center S.A. (APPLUS)