

Bellaterra: 30th May, 2018

File: **18/16498-502 Part 2 M1**

Petitioner's reference: **Synthesia Technology Europe, S.L.U.**
Argent, 3
08755 Castellbisbal (Barcelona)



Description of the modification: The petitioner's reference is modified due to a change of company name.

The present report replaces and cancels report 18/16498-502 Part 2 that was issued on 10th May 2018. The petitioner is responsible for replacing the original document and all the copies thereof.

CLASSIFICATION REPORT

1. – PRODUCT CHARACTERISTICS

Commercial product reference: POLIURETAN SPRAY S-303 HFO CON SYNTHEFOC.

Rigid spray polyurethane (PUR) foam protected with plastering mortar Synthefoc.

The product consists of 2 layers:

- Layer 1: Rigid spray polyurethane (PUR) foam with the commercial name Polyurethane Spray S-303 HFO, with a thickness of 55-60 mm, a density of 33-37 kg/m³, yellowish colour and orange peel appearance.

- Layer 2: SYNTHEFOC (one-component mortar), with a minimum thickness of 5 mm (5-7 mm), a density of 650 kg/m³, dark grey colour and rough appearance.

Fixing system: The product was tested adhered by cohesion (to the substrate of fibre-cement according to the standard UNE-EN 13238:2011)

Manufacturer: Synthesia Technology Europe, S.L.U. Address: Argent, 3 – 08755 Castellbisbal (Barcelona).

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2. - CLASSIFICATION AND DIRECT APPLICATION FIELD

This classification has been made in compliance with the procedures provided in Standard UNE-EN 13501-1:2007+A1:2010: "Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests".

2.1. – Test report

Name of the Laboratory	Applus – LGAI
Name of the Petitioner	SYNTESIA TECHNOLOGY EUROPE, S.L.U.
Test Report Number	18/16498-502 Parte 1 M1
Testing method	UNE-EN ISO 11925-2:2011 UNE-EN 13823:2012+A1:2016

2.2. – Test results

Testing method	RESULTS – POLIURETAN SPRAY S-303 HFO CON SYNTHFOC			
	CRITERIA CLASS B	Nº OF TESTS	AVERAGE	COMPLIANCE
UNE-EN ISO 11925-2:2011	$F_s \leq 150$ mm en 60 s	6	$F_s < 150$ mm	YES
	Inflamación del papel		NO	YES
UNE-EN 13823:2012 +A1:2016	$FIGRA_{0.2 MJ} \leq 120$ W/s	3	9.13	YES
	LFS < edge of sample	3	< to edge	YES
	$THR_{600s} \leq 7,5$ MJ	3	0.62	YES
	CRITERIA subclass 's1'	Nº OF TESTS	AVERAGE	COMPLIANCE
	$SMOGRA \leq 30$ m ² /s ²	3	1.11	YES
	$TSP_{600s} \leq 50$ m ²	3	7.63	YES
	CRITERIA subclass 'd0'	Nº OF TESTS	AVERAGE	COMPLIANCE
	Fall of droplets/particles in flames within 600s	3	NO	YES

CLASSIFICATION

With regard to its behaviour when reacting to fire, the product POLIURETAN SPRAY S-303 HFO CON SYNTHETOC is classified as follows:

Behaviour to fire		Smoke production		Droplets in flames
B	-	s	1	, d 0

Fire reaction classification: CLASS B-s1,d0

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

2.3. – Field of application

- This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown.

- This classification is valid for following final conditions of use:

Constructive insulation solutions in building that require a higher fire reaction than the one that offers the Poliuretán Spray S-303 HFO, like in ETICS systems (External Thermal Insulation Composite System).

2.4. - Restrictions

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

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

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

The results refer exclusively to the samples tested at the time and under the conditions indicated.

Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.

In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: satisfaccion.cliente@applus.com

In the event of litigation, the Spanish version will be valid