

Bellaterra: 02<sup>nd</sup> December, 2018

File: **18/17603-1268 Part 2 English Version**

Petitioner's reference: **ROBERLO S.A.**  
Ctra. N-II, km 706,5  
17457 Riudellots de la Selva,  
Girona



## **CLASSIFICATION REPORT**

### **1. – PRODUCT CHARACTERISTICS**

A system consisting of poliuretane paint was received with the following indications in accordance with the technical specifications provided by the petitioner:

Product trade name: DISOLAC: PUR 840

The product is compose by two layers:

Layer 1: Poliuretane (PUR 840)

-Thickness: 35 µm

-Density:

Liquid paint: 1.06 kg/m<sup>3</sup> / 0.103 kg/m<sup>2</sup>

Dry paint: 1.37 kg/m<sup>3</sup> / 0.049 kg/m<sup>2</sup>

Layer 2: Poliuretane (PUR 840)

- Thickness: 30 µm

-Density:

Liquid paint: 1.06 kg/m<sup>3</sup> / 0.087 kg/m<sup>2</sup>

Dry paint: 1.37 kg/m<sup>3</sup> / 0.041 kg/m<sup>2</sup>

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Fixing system: Test was carried out on paint applied by aerographic method. Two layer of 65 µm total thickness were applied on substrate. (Steel substrate according to standar UNE-EN 13238:2011)

Manufacturer: Roberlo S.A. Dirección: Ctra. N-II, km 706,5 - 17457 Riudellots de la Selva (Girona).

**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**

<b>Name of the Laboratory</b>	Applus – LGAI
<b>Name of the Petitioner</b>	ROBERLO S.A.
<b>Test Report Number</b>	18/17603-1268 Part 1
<b>Testing method</b>	UNE-EN ISO 11925-2:2011 UNE-EN 13823:2012+A1:2016

**2.2. – Test results**

Testing method	RESULTS – DISOLAC: PUR 840			
	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	<b>YES</b>
	Inflamación del papel		NO	<b>YES</b>
UNE-EN 13823:2012 +A1:2016	$FIGRA_{0,2 MJ} \leq 120$ W/s	3	0.00	<b>YES</b>
	LFS < edge of sample	3	< to edge	<b>YES</b>
	$THR_{600s} \leq 7,5$ MJ	3	0.41	<b>YES</b>
	<b>CRITERIA subclass 's1'</b>	<b>Nº OF TESTS</b>	<b>AVERAGE</b>	<b>COMPLIANCE</b>
	$SMOGR_A \leq 30$ m <sup>2</sup> /s <sup>2</sup>	3	0.00	<b>YES</b>
	$TSP_{600s} \leq 50$ m <sup>2</sup>	3	30.38	<b>YES</b>
	<b>CRITERIA subclass 'd0'</b>	<b>Nº OF TESTS</b>	<b>AVERAGE</b>	<b>COMPLIANCE</b>
	Fall of droplets/particles in flames within 600s	3	NO	<b>YES</b>

**CLASSIFICATION**

With regard to its behaviour when reacting to fire, the product DISOLAC: PUR 840 is classified as follows:

<b>Behaviour to fire</b>		<b>Smoke production</b>				<b>Droplets in flames</b>	
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:

The product DISOLAC: PUR 840 is intended to be used as paint works on industry.

**2.4. - Restrictions**

This classification standard should not be construed as a standard 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)

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

The uncertainties expressed in this document pertain to the expanded uncertainty, which has been obtained by multiplying the typical measurement uncertainty by the coverage factor k=2 which, for a regular distribution, corresponds to a coverage probability of approximately 95%.

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**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](mailto:satisfaccion.cliente@applus.com)

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