

**CLASSIFICATION REPORT
FIRE REACTION**



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TEST SPECIMEN	Type: FLOOR COVERING Reference: "HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS"	
CONCERNING TO	CLASSIFICATION OF FIRE PERFORMANCE OF CONSTRUCTION PRODUCTS AND BUILDING ELEMENTS. CLASSIFICATION USING DATA OBTAINED IN REACTION TO FIRE TESTS. ACCORDING TO STANDARD EN 13501-1:2018	
APPLICANT	INDUSTRIAS QUIMICAS IVM, S.A. DIVISION: MILESI P.I. MASIA JUEZ. C/ EL PERELLO 19 46900 TORRENT (VALENCIA) - SPAIN	
DATE/S OF TEST	Reception of specimens :	29/09/2021 and 19/10/2021
	Beginning of tests :	06/10/2021
	End of tests :	12/11/2021

AUTORIZED SIGNATORIES

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Document digitally signed by a legal electronic signature

The test sample object of this report will remain in AIDIMME for a period of thirty days from the date of issuance thereof. After this period, the sample will be destroyed, therefore any verification that the client wishes to exercise, must be carried out within these limits.

CONTENTS

1. INTRODUCTION	3
2.1. Inspection prior to test by the laboratory.....	3
2.2. Description and Identification of the test ítem. Inspection prior to test.....	3
3. TEST REPORTS SUPPORTING THE CLASSIFICATION	3
4. TEST RESULTS SUPPORTING THE CLASSIFICATION.....	4
5. CLASSIFICATION AND SCOPE.....	5
5.1. Classification.....	5
5.2. Scope.....	5
6. LIMITATIONS	5
ANNEX	A1

1. INTRODUCTION

This classification report defines the classification assigned to the product described in paragraph 2, in accordance with the procedures pointed in the EN 13501-1:2018 "Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests".

2. PRODUCT DATA CLASSIFIED

2.1. Inspection prior to test by the laboratory.

Test radiant panel and little burner.

Samples corresponding to painted MDF. The sample is labelled in AIDIMME with the following reference: 2110086-04.

2.2. Description and Identification of the test item. Inspection prior to test..

Samples corresponding to a flame retardant MDF board (classified as B_{fl}-s1 according to Euroclass UNE EN 13501-1) of 16 mm thickness and density of 760 Kg/m³, on which a transparent semi-matte process is applied consisting of two layers of 90-100 g/m² of product HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS, catalyzed at 10% with Hardener HNB40. The set has an approximate density of 1027 Kg/m³. The drying between layers is 24 hours. The process is applied with Air-mix gun, all this according to the information provided by the customer and referenced as:

- “HSA6464 HYDDROCOAT NO FIRE OP 20 GLOSS”
(Ref. AIDIMME: 2110086-04)

3. TEST REPORTS SUPPORTING THE CLASSIFICATION

Laboratory	Company/Customer	Test report reference	Test method
AIDIMME	INDUSTRIAS QUIMICAS IVM, S.A. DIVISION: MILESI	251.I.2112.095.ES.01	UNE-EN ISO 9239-1:11
AIDIMME	INDUSTRIAS QUIMICAS IVM, S.A. DIVISION: MILESI	251.I.2112.095.ES.01	UNE-EN ISO 11925-2:21

4. TEST RESULTS SUPPORTING THE CLASSIFICATION

Test method	Parameter	Numer of test	Results	
			Average of continuous parameter (m)	Compliance with parameters
UNE EN ISO 11925-2:21 (little burner) "HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS" Ref. AIDIMME: 2110086-04	Fs ≤ 150mm	6	Not applicable	Compliant
	Ignition of the filter paper		Not applicable	Compliant
UNE EN ISO 9239-1:11 (radiant panel)" "HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS" Ref. AIDIMME: 2110086-04	CHF / HF (kW/m ²)	3	≥11	Compliant
	Light attenuation (% x min)		90,67	Compliant

Note: The laboratory has estimated the uncertainties of the tests, which are available to the client.

5. CLASSIFICATION AND SCOPE

5.1. Classification.

Therefore, according to standard EN 13501-1:2018, and view of the test results and the classification criteria are attached at the Annex (table 1 of the mentioned standard), the sample described in section 2.2 of this report, all according to the information provided by the customer and referenced by the same "HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS" is classified in relation to the fire behavior as:

Reaction to fire	Smoke production
B_{fl}	s1

5.2. Scope

The classified product is defined for the use: floors coverings.

This classification can be affected if any following influence parameters are modified:

5.2.1 Parameter of the product

- Composition: Flame retardant MDF board on which is applied a transparent process (see description section 2.2). Variations not allowed
- Mass per area (painting): 90-100 g/m² per layer (2 layers). Variations not allowed.
- Substrate: Applications on any substrate with a density equal or higher to 570 Kg/m³ with a minimum thickness of 19 mm and reaction to fire B_{fl}-s1 or better.

5.2.2 End use applications

- Joins: vertical and horizontal joins are not allowed
- Substrate: Applications on any substrate with a density equal or higher to 652.5 Kg/m³ with a minimum thickness of (11±2) mm and Reaction to Fire B_{fl}-s1 or better.

6. LIMITATIONS

The result of this report only refers to the products described in paragraph 2 thereof.

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

The duration of the validity of this classification report is subject to applicable law at the time of issue.

ANNEX**Table 2 - CLASSES OF BEHAVIOUR TO FIRE REACTION FOR CONSTRUCTION FLOOR COVERINGS ACCORDING TO STANDARD UNE EN 13501-1:2019**

Class	Test method (s)	Classification criteria	Additional declaration required
A1_{fi}	UNE-EN-ISO 1182 ^a and	$\Delta T \leq 30^{\circ}\text{C}$; and $\Delta m \leq 50\%$; and $t_f = 0$ (that is, no sustained flaming)	-
	UNE-EN-ISO 1716	$\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{a}}$ and $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{b}}$ and $\text{PCS} \leq 1,4 \text{ MJ/m}^2^{\text{c}}$ and $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{d}}$	-
A2_{fi}	UNE-EN-ISO 1182 ^a Or	$\Delta T \leq 50^{\circ}\text{C}$; and $\Delta m \leq 50\%$; and $t_f \leq 20\text{s}$	-
	UNE-EN-ISO 1716 and	$\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{a}}$; and $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{b}}$ and $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{c}}$ and $\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{d}}$	-
	UNE-EN-ISO 9239-1 ^e	Critical flow ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
B_{fi}	UNE-EN-ISO 9239-1 ^e and	Critical flow ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	UNE-EN-ISO 11925-2 ^h Exposure = 15s.	$F_s \leq 150\text{mm}$ in 20s	
C_{fi}	UNE-EN-ISO 9239-1 ^e and	Critical flow ^f $\geq 4,5 \text{ kW/m}^2$	Smoke production ^g
	UNE EN ISO 11925-2 ^h Exposure = 15s.	$F_s \leq 150\text{mm}$ in 20s	
D_{fi}	UNE-EN-ISO 9239-1 ^e and	Critical flow ^f $\geq 3,0 \text{ kW/m}^2$	Smoke production ^g
	UNE EN ISO 11925-2 ^h Exposure = 15s.	$F_s \leq 150\text{mm}$ in 20s	
E_{fi}	UNE EN ISO 11925-2 ^h Exposure = 15s.	$F_s \leq 150\text{mm}$ in 20s	-
F_{fi}	UNE EN ISO 11925-2 ^h Exposure = 15s.	$F_s > 150\text{mm}$ in 20s	

a For homogeneous products and substantial components of heterogeneous products.

b For any non-substantial external component of heterogeneous products.

c For any non-substantial internal component of heterogeneous products

d For the product as a whole.

e Duration of the test = 30 minutes.

f The critical flow is defined as the radiant flow which determines the extinction of the flame or radiant flow after a test period of 30 minutes, depending on which of the two is lower (that is, corresponding to the maximum of the flow propagation flame).

g s1 = Smoke $\leq 750\%.\text{min}$;

s2 = no s1.

h Under conditions of surface flame attack and, if suitable for end conditions of product use, of edge flame attack..