

**CLASSIFICATION REPORT
REACTION TO FIRE**



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TEST SPECIMEN	Type: WALLS AND CEILINGS COVERINGS 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 16/02/2022 Beginning of test: 06/10/2021 End of test: 21/02/2022	

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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. PRODUCT DATA CLASSIFIED 3

 2.1 Inspection prior to test by the laboratory..... 3

 2.2. Description and Identification of the test item provided by the customer. 3

3. TEST REPORTS SUPPORTING THE CLASSIFICATION 3

4. TEST RESULTS SUPPORTING THE CLASSIFICATION..... 4

5. CLASSIFICATION AND FIELD OF APPLICATION..... 5

 5.1. Classification..... 5

 5.2. Field of application 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 SBI and little burner

Samples corresponding to painted flame retardant MDF board. The sample is labelled in AIDIMME with the following reference: 2109253-04.

2.2. Description and Identification of the test item provided by the customer.

Samples corresponding to a flame retardant MDF board (classified as B-s1,d0, according to Euroclass system UNE-EN 13501-1) of 18 mm thickness and density of 760 Kg/m³, on which a transparent semi-matte process is applied consisting of two layers of 120-130 g/m² of product HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS, catalyzed at 10% with Hardener HNB 40, with an approximate density of 1027 Kg/m³. The drying between layers is 24 hours. The process is applied with a spray gun, all this according to the information provided by the customer and referenced as:

- **“HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS”**
(Ref. AIDIMME: 2109253-04)

3. TEST REPORTS SUPPORTING THE CLASSIFICATION

Laboratory	Company/Customer	Test report reference	Test method
AIDIMME	INDUSTRIAS QUIMICAS IVM, S.A. DIVISION: MILESI	251.I.2202.032.ES.01	UNE EN 13823:21
AIDIMME	INDUSTRIAS QUIMICAS IVM, S.A. DIVISION: MILESI	251.I.2202.032.ES.01	UNE EN ISO 11925-2:21

4. TEST RESULTS SUPPORTING THE CLASSIFICATION

Test method	Parameter	Númer 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: 2109253-04	$F_s \leq 150\text{mm}$	12	Not applicable	Compliant
	Ignition of the filter paper		Not applicable	Compliant
UNE-EN 13823:21 (SBI) “HSA6464 HYDROCOAT NO FIRE OP 20 GLOSS” Ref. AIDIMME: 2109253-04	FIGRA _{0,2MJ} (W/s)	3	55.35	Compliant
	FIGRA _{0,4MJ} (W/s)		45.59	Compliant
	THR _{600s} (MJ)		2.55	Compliant
	TSP _{600s} (m ²) corrected		39.65	Compliant
	SMOGRA (m ² /s ²) corrected		0.0	Compliant
	LFS (Y/N)		Not applicable	Compliant
	Falling of flaming droptles/particles (Y/N)		Not applicable	Compliant

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

5. CLASSIFICATION AND FIELD OF APPLICATION

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	Drops in flame
B	s1	d0

5.2. Field of application

The classified product is defined for the use in walls and ceilings coverings.

5.2.1 Product parameters

- Composition: Flame retardant MDF board on which is applied a transparent process (see description section 2.2). Variations not allowed.
- Mass per area (painting): 120-130 g/m² per layer (2 layers). Variations not allowed.
- Support: Applications on any substrate with a density equal or higher to 570 Kg/m³ with a minimum thickness of 18 mm and reaction to fire B-s1,d0 or better

5.2.2 End-use application

- Joins: Vertical and horizontal joins are not allowed.
- Substrate: Applications on any substrate with density equal or higher to 652.5 Kg/m³, with a minimum thickness of (11 ± 2) mm and fire reaction classification A2-s1,d0 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 1 - Classes of behaviour to fire reaction for construction products excluding floor coverings and thermal insulating products for linear pipes according to standard UNE EN 13501-1:2019**

Class	Test method (s)	Classification criteria	Additional declaration required
A1	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 $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{b y c}}$ and $\text{PCS} \leq 1,4 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{e}}$	-
A2	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 $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{e}}$	-
	UNE-EN 13823 (SBI)	$\text{FIGRA}_{0,2 \text{ MJ}} \leq 120 \text{ W/s}$; and $\text{LFS} < \text{sample edge}$; and $\text{THR}_{600\text{s}} \leq 7,5 \text{ MJ}$	Smoke production ^f and flamming drops/particles ^g
B	UNE-EN 13823 and	$\text{FIGRA}_{0,2 \text{ MJ}} \leq 120 \text{ W/s}$ and $\text{LFS} < \text{sample edge}$; and $\text{THR}_{600\text{s}} \leq 7,5 \text{ MJ}$	Smoke production ^f and flamming drops/particles ^g
	UNE-EN-ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
C	UNE-EN 13823 and	$\text{FIGRA}_{0,4 \text{ MJ}} \leq 250 \text{ W/s}$ and $\text{LFS} < \text{sample edge}$; and $\text{THR}_{600\text{s}} \leq 15 \text{ MJ}$	Smoke production ^f and flamming drops/particles ^g
	UNE-EN-ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
D	UNE-EN 13823 y	$\text{FIGRA}_{0,4 \text{ MJ}} \leq 750 \text{ W, s}^{-1}$	Smoke production ^f and flamming drops/particles ^g
	UNE-EN-ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
E	UNE-EN-ISO 11925-2 ⁱ Exposure = 15s	$F_s \leq 150\text{mm}$ in 20s	Flamming drops/particles ^h
F	UNE-EN-ISO 11925-2 ⁱ 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 Alternatively, for any non-substantial external component having a $\text{PCS} \leq 2,0 \text{ MJ/m}^2$, as long as the product meets the following criteria Standard UNE-EN 13823 (SBI): $\text{FIGRA} \leq 20 \text{ W/s}$, and $\text{LFS} < \text{sample margin}$; and $\text{THR}_{600\text{s}} \leq 4,0 \text{ MJ y s}^{-1}$; and d0.^d For any internal non-substantial internal component of heterogeneous products.^e For the product as a whole^f s1= $\text{SMOGRA} \leq 30\text{m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 50\text{m}^2$; s2 = $\text{SMOGRA} \leq 180\text{m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 200\text{m}^2$; s3 = neither s1 nor s2^g d0 = No flaming droplets and particles in EN 13823 (SBI) in 600s

d1 = No flaming droplets and particles for more than 10s in UNE- EN 13823 (SBI) in 600,

d2 = neither d0 nor d1. The ignition of the paper in UNE EN ISO 11925-2 determines a classification d2.

^h Success = no ignition of the paper (without classification) ; Fail = ignition of the paper (classification d2)ⁱ Under conditions of surface flame attack and, if suitable for end conditions of product use, of edge flame attack

The results of this/these test/s only refers to the object/s tested.

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