

EXTENDED APPLICATIONS REPORT (EXAP) FIRE REACTION

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TEST SPECIMEN	Type: WALLS AND CEILINGS COVERINGS Reference: "RANGE TS155X SERIE GLOSS FLAMER FONDO-ACABADO ACRÍLICO"	
STANDARD	UNE-CEN/TS 15117:2009. Guidance on direct and extended application	
APPLICANT	IVM CHEMICALS SRL. DIVISION: ILVA VIALE DELLA STAZIONE, 3 27020 PARONA (PV) - ITALY	
DATE/S OF TEST	Reception of specimens: 01/06/23, 27/06/23 and 17/07/23 Beginning of test: 13/06/2023 End of test: 21/07/2023	

AUTHORIZED SIGNATORIES




Signed.: Ms. Raquel Cánovas Ruiz
Technician Fire Lab




Signed.: Mr. Stephane García Malpartida
Head of Section - Fire Laboratory

Document digitally signed by a legal electronic signature

CONTENTS

1. INTRODUCTION	3
2. DETAILS OF THE PRODUCT INVOLVED	3
2.1. Information of the product	3
2.2. Description and Identification of the tested object by the company	3
3. REPORTS AND TEST RESULTS ON WHICH THE REPORT ON THE EXTENDED FIELD OF APPLICATION IS BASED.....	4
4. TEST RESULTS	5
5. EXTENDED FIELD OF APPLICATION. PROCESS	5
5.1. Applied principles for the extension of the field of application.....	5
5.2. Influence of the variation of the product parameters on the results	5
5.3. Influence of the variation of the parameters of the final conditional of use	6
6. EXTENDED FIELD OF APPLICATION OF TEST RESULTS	6
6.1. Product range	6
6.2. Fire behavior parameters of the product range	6

1. INTRODUCTION

This extended applications report concerns to the test results obtained in accordance with the test methods described in the following standards:

- **UNE-EN 13823:2021.** *Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.*
- **UNE-EN ISO 11925-2:2021.** *Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test.*
- **UNE-EN ISO 1716:2021.** *Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value).*

The determination of the extended field of application of test results has been carried out in accordance with the rules and systematic established in the standards:

- **UNE-CEN/TS 15117:2009.** *Guidance on direct and extended application.*
- **UNE-EN 15725:2011/AC:2012.** *Extended application reports on the fire performance of construction products and building elements.*

2. DETAILS OF THE PRODUCT INVOLVED

2.1. Information of the product

- **Product family**
Acrylic fire retardant paints
- **Intended use**
Walls and ceilings coverings

2.2. Description and identification of the tested object by the company

Samples corresponding to a range of transparent varnishes applied on a 19 mm thick MDF board (classified as B-s2,d0 according to UNE-EN 13501-1). The application process consists of two layers of 120 g/m² of product **TS155X FLAMER Fondo-acabado acrílico** (where X is a number indicating the gloss degree) catalyzed at 10% with TX90 Hardener PU NA. The set presents an approximate density of (922 ± 30) Kg/m³. The drying time of the first layer is 12 hours and 24 hours for the second layer, all this according to the information provided by the customer.

GLOSS DEGREE	REFERENCE
Serie 60 Gloss	TS1552 FLAMER Fondo-acabado acrílico
Serie 40 Gloss	TS1553 FLAMER Fondo-acabado acrílico
Serie 20 Gloss	TS1555 FLAMER Fondo-acabado acrílico
Serie 10 Gloss	TS1556 FLAMER Fondo-acabado acrílico

Serie 5 Gloss	TS1557 FLAMER Fondo-acabado acrilico
Serie 2 Gloss	TS1558 FLAMER Fondo-acabado acrilico

The reference characteristic values of the tested products are:

	Product 1	Product 2
Gloss	2 Gloss (matte)	60 Gloss (gloss)

The main descriptive characteristics of the samples (gloss) have been supplied by the applicant

The comercial references according to the client are:

- “TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 2° GLOSS”
(Ref. AIDIMME: 2306010-01)
- “TS1552 FLAMER FONDO-ACABADO ACRÍLICO OP 60° GLOSS”
(Ref. AIDIMME: 2306010-02)

3. REPORTS AND TEST RESULTS ON WHICH THE REPORT ON THE EXTENDED FIELD OF APPLICATION IS SUPPORTED

Laboratory	Company/Customer	Test report reference	Date of issue	Test method
ENSATEC	IVM CHEMICALS SRL. DIVISION: ILVA	251.I.2309.054.ES.01	September 1 st 2023	UNE-EN 13823:2021
AIDIMME	IVM CHEMICALS SRL. DIVISION: ILVA	251.I.2309.054.ES.01	September 1 st 2023	UNE-EN ISO 11925-2:21
AIDIMME	IVM CHEMICALS SRL. DIVISION: ILVA	251.I.2309.054.ES.01	September 1 st 2023	UNE-EN ISO 1716:21

4. TEST RESULTS

The following table shows the values on the parameters used as the basis for determining the field of application:

Test method: UNE-EN ISO 1716:2021

Indicative sample	Reference	PCS (MJ/Kg) Result
Matte	“TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 2° GLOSS” (Ref. AIDIMME: 2306010-01)	25,4
Gloss	“TS1552 FLAMER FONDO-ACABADO ACRÍLICO OP 60° GLOSS” (Ref. AIDIMME: 2306010-02)	25,7

⁽¹⁾ the parameters that have special relevance in determining the fire behavior of the product are considered.

According to the results obtained, the most unfavorable product is the gloss one. The complete test is carried out on this product to obtain the parameters used to establish the classification of the product range.

5. EXTENDED FIELD OF APPLICATION. PROCESS

5.1. Applied principles for the extension of the field of application

To determine the field of application of the test results, the following methodology has been used:

Method 1: Establish the influence of the variation of the product parameters and the end use condition as specified in:

- UNE-CEN/TS 15117- Annex A

The analysis of how each of the parameters considered can have an influence on the test results (according to the indicated standard), considers that the rest of the parameters remain constant.

5.2. Influence of the variation of the product parameters on the results

Parameter	Test standard*	Results variation rule standard	Standard
Gloss	UNE-EN ISO 1716:2021	A complete sample of each gloss is made. The SBI and little burner test of the worst result are carried out.	UNE-CEN/TS 15117:2009
	UNE-EN 13823:2021 and UNE-EN ISO 11925-2:2021	Full sample of worst result	UNE-CEN/TS 15117:2009

* Only reference is made to the test standard whose results show variation as a consequence of the variation of the parameter considered

5.3. Influence of the variation of the parameters of the final conditional of use

Parameter	Test standard*	Results variation rule standard	Standard
Support	UNE-EN 13823:2021 and UNE-EN ISO 11925-2:2021	Supports with density equal or higher to 570 Kg/m ³ with a minimum thickness of 19 mm and reaction to fire B-s2,d0 or better (according to EN 13501-1).	UNE-CEN/TS 15117:2009

6. EXTENDED FIELD OF APPLICATION OF TEST RESULTS

6.1. Product range

Hereafter it is shown the range of variation allowed for the different parameters of the product/end use conditions. Rest of parameters shall be kept as described in paragraph 2.2.

ALLOWED RANGE	
Product type	Acrylic fire retardant paints
Support	Supports with density equal or higher to 570 Kg/m ³ with a minimum thickness of 19 mm and reaction to fire B-s2,d0 or better (according to EN 13501-1).
Gloss	From 2 gloss (matte) up to 60 gloss (gloss)

6.2. Fire behavior parameters of the product range

Test method	Parameter	Results	
		Average of continuous parameter (m)	Compliance with parameters
UNE EN ISO 1716:21 (Gross heat) "TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 2° GLOSS" Ref. AIDIMME : 2306010-01	PCS (MJ/Kg)	25.4	Compliant

Test method	Parameter	Results	
		Average of continuous parameter (m)	Compliance with parameters
UNE EN ISO 1716:2021 (Gross heat) “TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 60° GLOSS” Ref. AIDIMME : 2306010-02	PCS (MJ/Kg)	25.7	Compliant
UNE EN ISO 11925-2:2021 (Little burner) “TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 60° GLOSS” Ref. AIDIMME : 2306010-02	Fs ≤ 150mm	Not applicable	Compliant
	Ignition of the filter paper	Not applicable	Compliant
UNE-EN 13823:2021 (SBI) “TS1558 FLAMER FONDO-ACABADO ACRÍLICO OP 60° GLOSS” Ref. AIDIMME : 2306010-02	FIGRA _{0,2MJ} (W/s)	113.26	Compliant
	THR _{600s} (MJ)	5.15	Compliant
	TSP _{600s} (m ²) corrected	30.81	Compliant
	SMOGRA (m ² /s ²) corrected	2.91	Compliant
	LFS (Y/N)	Not applicable	Compliant
	Falling of flaming droptles/particles (Y/N)	Not applicable	Compliant