

Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard: EN 13501-1: 2018

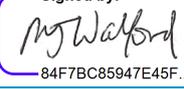
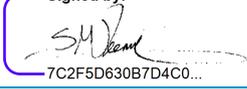
Sponsor(s): FSW Coatings Ltd

Product(s): "Trade Vinyl Matt"

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Quality management

Version	Date	Summary of amendments including reasons	
1	6 March 2026	Description	Initial issue
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1. Introduction

This classification report defines the classification assigned to "Trade Vinyl Matt", in line with the procedures given in EN 13501-1: 2018.

Warringtonfire Testing and Certification Limited (Warringtonfire) issued the classification report at the request of the sponsor listed in Table 1.

Table 1 Sponsor details

Entity	Address
Sponsor	
FSW Coatings Ltd	Ballaghanea, Virginia, Co Cavan, A82 N267, Rep. of Ireland

2. Details of classified product

2.1 General

The product(s), "Trade Vinyl Matt", are defined as being suitable for construction applications excluding floorings and linear pipe thermal insulation.

2.2 Product description

The product(s), "Trade Vinyl Matt", are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item	Detail	
General description	Water based decorative coating which was tested applied to a plasterboard substrate	
Product reference	"Trade Vinyl Matt"	
Name of manufacturer	FSW Coatings Ltd	
Overall thickness (including substrate)	13.00mm (determined by Warringtonfire)	
Overall weight per unit area (including substrate)	8.68 kg/m ² (determined by Warringtonfire)	
Coating	Generic type	Water based decorative coating
	Product reference	"Trade Vinyl Matt"
	Name of manufacturer	FSW Coatings Ltd
	Number of coats	Two
	Overall application thickness	68 micron (dry film thickness)
	Density	1.47 g/ml
	Application method	Roller
	Curing process	2 days natural drying
	Colour	White
Flame retardant details	See Note 1 below	

Continued on next page

Item		Detail
Brief description of manufacturing process		<p>Water-based emulsion paints are manufactured according to pre-determined formulations that are specific to each product grade and finish. Raw materials, including pigments, fillers, binders, additives, and water, are accurately pre-weighed in accordance with the formulation percentages to ensure product consistency and quality.</p> <p>The production process begins with the dispersion stage, in which pigments and fillers are dispersed in water using high-speed dispersers to achieve the required particle size and uniformity.</p> <p>The degree and duration of dispersion are product-specific and depend on the desired performance characteristics, such as opacity, gloss level, and durability.</p> <p>Once dispersion is complete, the pigment slurry is transferred to a secondary mixing vessel, where the polymer binder (emulsion resin) and other formulation additives are incorporated under controlled agitation.</p> <p>Following mixing, the paint is adjusted to the specified viscosity and performance parameters through the controlled addition of water and rheology modifiers.</p> <p>The finished paint is then filtered to remove any impurities or agglomerates, ensuring a smooth and uniform product.</p> <p>The final product is filled into appropriate packaging containers, sealed, and labelled according to product specifications and regulatory requirements.</p> <p>Finished paint containers are transported from the production facility to storage warehouses under standard handling conditions and subsequently distributed to customers in sealed containers to maintain product integrity during delivery.</p>
Mounting and fixing details		The specimens were tested applied to a standard paper faced plasterboard substrate as defined in EN 13238:2010, and described below
Substrate	Generic type	Paper faced plasterboard
	Product reference	"Gyproc Soundbloc"
	Name of manufacturer	British Gypsum
	Thickness	12.5mm
	Density	600 kg/m ³
	Flame retardant details	See Note 2 below

Note 1 - The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 2 – The sponsor was unable to provide this information.

3. Test reports and test results in support of classification

3.1 Test reports

Table 3 details the test reports that have been used in support of classification.

Table 3 Test reports

Name of laboratory	Name of sponsor(s)	Test report no.	Test date	Test and extended application standard
Warringtonfire	FSW Coatings Ltd	556303	22 December 2025	EN 13823: 2020 + A1: 2022
Warringtonfire	FSW Coatings Ltd	556304	17 December 2025	EN ISO 11925-2: 2020

3.2 Test results

3.2.1 Official test results used for the classification

Table 4 details the test results that have been used in support of classification. The fire performance parameters for class B - s1, d0 can be found in Table 6.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022 556303	FIGRA (THR(t) threshold of 0.2MJ)	3	11	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.8	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		11	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant
EN ISO 11925-2: 2020 (30s exposure - Surface) 556304	F _s ≤ 150 mm within 60 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (30s exposure - Edge) 556304	F _s ≤ 150 mm within 60 s	6	-	Compliant
	No ignition of the paper		-	Compliant

Note: '-' symbol confirms this parameter is not applicable.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product "Trade Vinyl Matt" in relation to its reaction to fire behavior is classified as:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications excluding floorings and linear pipe thermal insulation products is:

Fire behaviour	Smoke production			Flaming droplets		
B	-	s	1	,	d	0
This classification document does not represent type approval or certification of the product						

Alternatively shown:

Reaction to fire classification: B - s1, d0

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

4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid for end-use applications described in Table 5.

Table 5 End-use applications

End use	Description	Origin
Substrate	Any substrate with a density equal to or greater than 525 kg/m ³ , a minimum thickness of 12 mm and a fire performance of A2-s1, d0 or better.	As per EN 13238: 2010, clause 5.3 and EGOLF recommendation 045-2018.
Airgap	No air gap allowed	N/A
Joints	No joints permitted	N/A

This classification is valid for the following product parameters:

- Number of coats of coating: Two (No variation allowed)
- Coating overall application thickness: 68 micron (dry film thickness) (No variation allowed)
- Coating density: 1.47 g/ml (No variation allowed)
- Coating application method: Roller (No variation allowed)
- Coating curing process: 2 days natural drying (No variation allowed)
- Coating colour: White (No variation allowed)
- Construction: No variation allowed
- Composition: No variation allowed
- Use of flame retardants: No variation allowed

4.4 Fire performance parameters for B - s1, d0

All the products described in Section 2.2 and within the field of application defined in Section 4.3 comply with the fire performance parameters shown in Table 6. The test results can be found in Section 3.2.

Table 6 Fire performance parameters for B - s1, d0

Test method	Parameter	Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022	FIGRA (THR(t) threshold of 0.2MJ)	$FIGRA_{0,2MJ} \leq 120 \text{ W/s}$	-
	FIGRA (THR(t) threshold of 0.4MJ)	-	-
	THR _{600s} (MJ)	$THR_{600s} \leq 7,5 \text{ MJ}$	-
	Lateral flame spread to edge of test specimen?	-	LFS < edge of specimen
	SMOGRA (m ² /s ²)	$SMOGRA \leq 30 \text{ m}^2/\text{s}^2$	-
	TSP _{600s} (m ²)	$TSP_{600s} \leq 50 \text{ m}^2$	-
	Fall of flaming droplets/particles < 10s?	-	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s
	Fall of flaming droplets/particles > 10s?	-	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s
EN ISO 11925-2: 2020 (30s exposure)	Extent of flame spread	-	$F_s \leq 150 \text{ mm}$ within 60 s
	Flaming droplets / particles that ignite filter paper	-	No ignition of the paper

Note: '-' symbol confirms this parameter is not applicable.

5. Restrictions

At the time the standard EN 13501-1: 2018 was published, no decision was made about the duration of validity of a classification report.

When this report is used to support UKCA marking under the Construction Products Regulation 2011 (retained EU law EUR 2011/305) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 and/or 'CE+UK(NI)' marking for Northern Ireland under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011, the provisions of those regulations prevail over any conflicting provisions in the designated/harmonised standards and technical specifications.

6. Limitations

According to the information mentioned by the sponsor on the technical information sheet there was no harmonised product standard for UKCA or CE+UK(NI) marking available at the time the classification report for the tested material/product was drafted. When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for UKCA or CE+UK(NI) marking.

The test laboratory played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

7. Validity

This document is the original version of this classification report and is written in English. In case of doubt the original version prevails over a translation.

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The classification results relate to the behaviour of a product under the particular conditions of the test(s); they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the classification results be extrapolated and applied to other products, or imply suitability for use in configurations not specifically detailed in the classification report. The classification is based on the information available to Warringtonfire at the time of the report. Should conflicting or contradictory evidence become available, Warringtonfire reserves the right to unconditionally withdraw the classification report forthwith upon giving written notice of the same.

Reports are statements of fact prepared in accordance with the referenced version of the standards stated in Section 3 of this report. Test, classification and extended application are based upon the information provided to Warringtonfire. Warringtonfire takes no responsibility for the accuracy or completeness of such information.

The results stated in this classification report apply to the test specimens as received and/or specified in the referenced/supporting test reports. Any differences in composition, production process, thickness, density or colour of the product may significantly affect the performance and will therefore invalidate the application of the test and classification results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the sponsor. The sponsor should then obtain appropriate documentary evidence of compliance from Warringtonfire or another accredited testing authority. The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test specimens that were tested.

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This document does not represent type approval or certification of the product. Warringtonfire does not give an opinion nor is it Warringtonfire's responsibility to determine or state whether the product meets any particular fire or life safety standards as set out in the Building Regulations or any other appropriate document.



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