

Title:

CLASSIFICATION OF REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2018.

Approved Body No:

0833

Product Name:

"Sempatap Thermal 10mm"

Report No:

WF 505489

Issue No:

1

Prepared for:

Mould Growth Consultants Limited

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Date:

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1. Introduction

This classification report defines the classification assigned to "Sempatap Thermal 10mm", a coated fibreglass and latex foam based wallcovering product, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The product, "Sempatap Thermal 10mm", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Sempatap Thermal 10mm", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Latex foam with coated woven fibreglass face adhered to calcium silicate
Product reference		"Sempatap Thermal 10mm"
Name of manufacturer		Sempatap
Thickness of wallcovering		10mm (Stated by sponsor) 10.63mm (Measured by Warringtonfire)
Weight per unit area of wallcovering		2.08kg/m ² (Stated by sponsor) 1.92kg/m ² (Measured by Warringtonfire)
Scrim	Generic type	Fibreglass
	Product reference	See Note 1 Below
	Name of manufacturer	See Note 1 Below
	Colour reference	"White"
	Thickness	0.5mm
	Weight per unit area	0.08kg/m ²
	Type of weave	See Note 1 Below
Flame retardant details		See Note 1 Below
Adhesive	Generic type	Polyvinyl Acetate (PVA)
	Product reference	"Sempatap Adhesive"
	Name of manufacturer	See Note 2 Below
	Colour reference	"Off White"
	Application rate	2.5m ² /ltr
	Application method	See Note 1 Below
	Flame retardant details	See Note 3 Below
Curing process		Air drying emulsion

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Foam	Generic type	Latex
	Product reference	See Note 1 Below
	Name of manufacturer	See Note 1 Below
	Thickness	9.5mm
	Weight per unit area	2kg/m ²
	Colour reference	"Off White"
	Flame retardant details	See Note 1 Below
Adhesive	Generic type	Polyvinyl Acetate (PVA)
	Product reference	"Sempatap Adhesive"
	Name of manufacturer	See Note 2 Below
	Colour reference	"Off White"
	Application rate	2.5m ² /ltr
	Application method	See Note 1 Below
	Flame retardant details	See Note 3 Below
Curing process	Air drying emulsion	
Substrate	Product reference	"Promat – Brandschultzbauplatten; Promatect-H"
	Generic type	Calcium Silicate based board
	Name of manufacturer	Promat
	Thickness	12mm
	Density	870kg/m ³
Flame retardant details	The substrate is inherently flame retardant	
Brief description of manufacturing process		Liquid latex foam machine applied to fibreglass scrim and heated

Note 1: The sponsor was unable to provide this information.

Note 2: The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 3: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Mould Growth Consultants Ltd	505165	EN ISO 11925-2: 2020
Warringtonfire	Mould Growth Consultants Ltd	505163	EN 13823: 2020

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F _s	6	-	Compliant ≤ 50 mm
	Flaming droplets/ particles		-	Compliant
EN ISO 11925-2 (30s exposure - edge)	F _s	6	-	Compliant ≤ 30 mm
	Flaming droplets/ particles		-	Compliant
EN 13823	FIGRA _{0.2MJ}	3	263 W/s	-
	FIGRA _{0.4MJ}		262 W/s	-
	THR _{600s}		4.9 MJ	-
	LFS		-	Compliant
	SMOGRA		70 m ² /s ²	-
	TSP _{600s}		120 m ²	-
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1: 2018 and EN 15102: 2007 + A1: 2011.

4.2 Classification

The product, "Sempatap Thermal 10mm", a coated fibreglass and latex foam based wallcovering product, in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s2

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

d0

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

Fire Behaviour		Smoke Production			Flaming Droplets	
D	-	s	2	,	d	0

i.e. **D – s2 , d0**

Reaction to fire classification: D – s2, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications fully adhered to any substrate with a density equal to or greater than 652.5kg/m³, having a minimum thickness of 9mm and a fire performance of A2-s1,d0 or better (excluding paper faced gypsum plasterboard).
- ii) Product installed utilising "Sempatap Adhesive", a PVA based adhesive, at an application rate of 2.5m²/litre..

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour	Any variation allowed
Product composition	No variation allowed
Product construction	No variation allowed
Joints	No joints allowed

5. Limitations

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

SIGNED



Stacey Deeming

Principal Engineer
Technical Department

APPROVED



Matthew Dale

Principal Certification Engineer
Technical Department
on behalf of [Warringtonfire](#)

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