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CLASSIFICATION

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

Classification no.	2021-Efectis-R001651
Sponsor	PPG Coatings BV Amsterdamseweg 14 1422 AD UITHOORN THE NETHERLANDS
Product name	Sigma Pearl Clean Matt
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Notified body no.	1234
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1. INTRODUCTION

This classification report defines the classification assigned to **Sigma Pearl Clean Matt** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Sigma Pearl Clean Matt**, is defined as a ceiling or wall covering.

2.2 MANUFACTURER

PPG Coatings BV Amsterdamseweg 14 1422 AD UITHOORN THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Paint based on an acrylic resin. The colour of the product is full shade yellow (UYY). The paint is applied in 2 layers with a brush, roller or spray.

The product has a total thickness of 85 μ m, a wet density of approx. 1130 kg/m³ and a dry mass per unit area of approx. 145 g/m².

3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN 13823:2020	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN ISO 1716:2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value). The classification is temporarily stated without RvA accreditation.
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests



3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV The Netherlands Efectis France	PPG Coatings Nederland BV	2021-Efectis-R001649 2021-Efectis-R001650	EN 13823:2020
France	THE NETHERLANDS	EFR-21-HC-004580	EN ISO 1716:2018

3.3 TEST RESULTS

				Results	
Test method and Parameter test number		No. tests	Continuous parameter – mean (m)	Compliance with parameters	
EN 13823					
	FIGRA _{0.2MJ}	[W/s]		0	-
	FIGRA _{0.4MJ}	[W/s]		0	-
	THR _{600s}	[MJ]		0.2	-
	LFS < edge			-	Compliant
	SMOGRA	[m ² /s ²]	3	0.0	-
	TSP _{600s}	[m²]		12	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s	S		-	Compliant Compliant

Test method and parameter				
			Results	
EN ISO 1716		No. tests	Continuous parameter – mean (m)	Compliance with parameters
The product is homogeneous				
External non-Substantial component(s)	[MJ/m ²]		2.77	Compliant
Product as a whole	[MJ/kg]		≤3.0	Compliant



3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products				
Class	Test method(s)	Classification criteria	Additional classification	
A2	EN ISO 1182 ª Or	$\Delta T \le 50$ °C; and $\Delta m \le 50$ %; and $t_f \le 20$ s	-	
	EN ISO 1716 and	PCS ≤ 3.0 MJ/kg ^a and PCS ≤ 4.0 MJ/m ^{2 b} and PCS ≤ 4.0 MJ/m ^{2 d} and PCS ≤ 3.0 MJ/kg e	-	
	EN 13823	FIGRA \leq 120 W/s and LFS < edge of specimen and THR _{600s} \leq 7.5 MJ	Smoke production ^f and Flaming droplets/particles ^g	

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c Alternatively, any external non-substantial component having a PCS \leq 2.0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA \leq 20 W/s, and LFS < edge of specimen, and THR_{600s} \leq 4.0 MJ, and s1, and d0.

- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- f s1 = SMOGRA \leq 30 m²/s² and TSP_{600s} \leq 50 m²;
 - **s2** = SMOGRA \leq 180 m²/s² and TSP_{600s} \leq 200 m²;
 - **s3** = not s1 or s2

^g **d0** = no flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; **d2** = not d0 or d1.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

4.2 CLASSIFICATION

The product, Sigma Pearl Clean Matt, in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

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

d0

Reaction to fire classification: A2 – s1, d0



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4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Dry layer thickness	85 μm
Wet density	1130 kg/m ³
Dry mass per surface area	145 g/m²
Other properties	Applied in 2 layers. colour UYY.
This classification is valid for the follow	ing end use applications:
Substrate	Non-combustible (class A1/A2, 870 ± 50 kg/m³, according to EN 13238:2010)
Application	Applied with brush, roller or spray
Air gap	No
Methods and means of fixing	Self-adherend
Joints	No
Other aspects of end use conditions	None

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

5. LIMITATIONS

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

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