

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

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Classification no.	2020-Efectis-R001224[Rev.1]
Sponsor	PPG Coatings Nederland B.V. Technical Center AC-NL Amsterdamseweg 14 1422 AD UITHOORN THE NETHERLANDS
Product name	<b>Sigmapearl Clean Satin</b>
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Notified body no.	1234
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Project number	ENL-20-000317
Original date of issue	September 2020
Date of issue	October 2020
Number of pages	6

## 1. INTRODUCTION

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### 1.1 PRODUCT NAME

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

### 1.2 REVISION INFORMATION

Primer layer thickness amended, and editorial changes.  
Original date of issue: September 2020

## 2. DETAILS OF CLASSIFIED PRODUCT

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### 2.1 GENERAL

The product, **Sigmapearl Clean Satin**, is defined as a ceiling or wall covering.

### 2.2 MANUFACTURER

PPG Coatings Nederland B.V.  
Technical Center AC-NL  
Amsterdamseweg 14  
1422 AD UITHOORN  
THE NETHERLANDS

### 2.3 PRODUCT DESCRIPTION

Product description:

- 1 layer of Sigmafix Universal Primer, with a density of 1.0 kg/dm<sup>3</sup>, a consumption of approx. 125 g/m<sup>2</sup> (dry weight of 5.2 g/m<sup>2</sup>), a dry layer thickness of 0 µm (the substrate absorbs the primer totally);
- 2 layers of Sigmapearl Clean Satin in the colour UYY, with a density of 1.,1 kg/dm<sup>3</sup>, a consumption per layer of approx. 155 g/m<sup>2</sup> (dry weight of 45.75 g/m<sup>2</sup>), and a dry layer thickness of 85 µm.

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

#### 3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010 + C1:2011	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2010 + A1:2014	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
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	PPG Coatings Nederland B.V. Technical Center AC-NL THE NETHERLANDS	2020-Efectis-R001141[Rev.1] 2020-Efectis-R001222[Rev.1]	EN 13823:2010 + A1:2014 EN ISO 1716:2018

#### 3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results		
			Continuous parameter – maximum	Compliance with parameters	
<b>EN ISO 1716</b>					
The product is non-homogeneous					
External non-Substantial component(s)		[MJ/m <sup>2</sup> ]	2.49	Compliant	
Product as a whole		[MJ/kg]	< 3*	Compliant	
* In practice, the non-substantial external product applied on any A1 class substrate, will result in a total PCS per kg product less than 3 MJ/kg					
<b>EN 13823</b>					
	FIGRA <sub>0.2MJ</sub>	[W/s]	3	61	-
	FIGRA <sub>0.4MJ</sub>	[W/s]		9	-
	THR <sub>600s</sub>	[MJ]		0.9	-
	LFS < edge			-	Compliant
	SMOGRA	[m <sup>2</sup> /s <sup>2</sup> ]		0.0	-
	TSP <sub>600s</sub>	[m <sup>2</sup> ]		36	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s			- -	Compliant 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
<b>A2</b>	EN ISO 1182 <sup>a</sup> Or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ ; and $\Delta m \leq 50 \%$ ; and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3.0 \text{ MJ/kg}$ <sup>a</sup> and $PCS \leq 4.0 \text{ MJ/m}^2$ <sup>b</sup> and $PCS \leq 4.0 \text{ MJ/m}^2$ <sup>d</sup> and $PCS \leq 3.0 \text{ MJ/kg}$ <sup>e</sup>	-
	EN 13823	$FIGRA \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>

<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.  
<sup>b</sup> For any external non-substantial component of non-homogeneous products.  
<sup>c</sup> Alternatively, any external non-substantial component having a  $PCS \leq 2.0 \text{ MJ/m}^2$ , provided that the product satisfies the following criteria of EN 13823:  $FIGRA \leq 20 \text{ W/s}$ , and  $LFS < \text{edge of specimen}$ , and  $THR_{600s} \leq 4.0 \text{ MJ}$ , and s1, and d0.  
<sup>d</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>e</sup> For the product as a whole.  
<sup>f</sup> **s1** =  $SMOGRA \leq 30 \text{ m}^2/\text{s}^2$  and  $TSP_{600s} \leq 50 \text{ m}^2$  ;  
**s2** =  $SMOGRA \leq 180 \text{ m}^2/\text{s}^2$  and  $TSP_{600s} \leq 200 \text{ m}^2$ ;  
**s3** = not s1 or s2  
<sup>g</sup> **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, **Sigmapearl Clean Satin**, 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**

#### 4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	<1 mm
Surface density	310 kg/m <sup>2</sup>
Primer layer	<ul style="list-style-type: none"><li>• 1 layer Sigmafix Universal Primer</li><li>• density 1.0 kg/dm<sup>3</sup></li><li>• consumption of approx. 125 g/m<sup>2</sup></li><li>• dry weight of 5,2 g/m<sup>2</sup></li><li>• dry layer thickness 0 µm</li></ul>
Top layer	<ul style="list-style-type: none"><li>• 2 layers of Sigmapearl Clean Satin</li><li>• All colours</li><li>• density of 1,1 kg/dm<sup>3</sup></li><li>• consumption of approx. 155 g/m<sup>2</sup> per layer</li><li>• dry weight of 45.75 g/m<sup>2</sup> per layer</li><li>• dry layer thickness 85 µm</li></ul>

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1 according to EN 13238:2010)
Application	Applied with a paint roller
Air gap	No
Methods and means of fixing	None
Joints	No
Other aspects of end use conditions	Closed surface, no openings or gaps between components

#### 4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

## 5. LIMITATIONS

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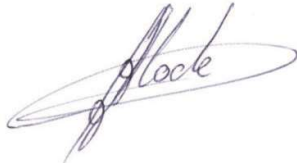
This classification document does not represent type approval or certification of the product.



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