

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

| | |
|--------------------|---|
| Classification no. | 2017-Efectis-R001187 |
| Sponsor | PPG Coatings Nederland B.V. Amsterdamseweg 14 1422 AD UITHOORN THE NETHERLANDS |
| Product name | Coating, type Sigmapearl Clean Matt |
| Prepared by | Efectis Nederland BV |
| Notified body no. | 1234 |
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1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **coating, type Sigmapearl Clean Matt** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **coating, type Sigmapearl Clean Matt**, is defined as a wall and ceiling covering (paint).

2.2 MANUFACTURER

PPG Coatings Nederland B.V.
Amsterdamseweg 14
1422 AD UITHOORN
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is from inside out composed of:
Wall paint based on acrylic resin in full shade yellow (UY)

The product:

- has a density of approx. 1.3 kg/dm³
- is painted in two layers
- with a total consumption of +/- 260 gr/m²
- in a layer thickness of approx. 85 µm

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

3.1 APPLICABLE (PRODUCT) STANDARDS

| | |
|-------------------------|--|
| EN ISO 11925-2:2010 | 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 13501-1:2007+A1:2009 | 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. THE NETHERLANDS | 2017-Efectis-R001185 2017-Efectis-R001186 | EN ISO 11925- 2:2010 EN 13823:2014 |

3.3 TEST RESULTS

| Test method and test number | Parameter | No. tests | Results | |
|-----------------------------|--|-----------|---------------------------------|----------------------------|
| | | | Continuous parameter – mean (m) | Compliance with parameters |
| EN ISO 11925-2 | | | | |
| surface flame impingement | $F_s \leq 150$ mm | 6 | 29 | - |
| | Ignition of filter paper | | - | Compliant |
| Edge flame Impingement | $F_s \leq 150$ mm | 6 | 33 | - |
| | Ignition of filter paper | | - | Compliant |
| EN 13823 | | | | |
| | FIGRA _{0.2MJ} [W/s] | 3 | 63 | - |
| | FIGRA _{0.4MJ} [W/s] | | 0 | - |
| | THR _{600s} [MJ] | | 1.1 | - |
| | LFS < edge | | - | Compliant |
| | SMOGRA [m ² /s ²] | | 0.0 | - |
| | TSP _{600s} [m ²] | | 31 | - |
| | 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 | | | |
|--|--|--|-----------------------------------|
| Classification criteria | | | |
| Class | B | C | D |
| Test method(s) | | | |
| EN ISO 11925-2 Exposure = 30 s | $F_s \leq 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification. | | |
| EN 13823 | FIGRA _{0.2 MJ} ≤ 120 W/s LFS < edge of specimen THR _{600s} ≤ 7.5 MJ | FIGRA _{0.4 MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ | FIGRA _{0.4 MJ} ≤ 750 W/s |

| Additional classification | |
|----------------------------------|--|
| Smoke production | s1 = $\text{SMOGRA} \leq 30 \text{ m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 50 \text{ m}^2$; s2 = $\text{SMOGRA} \leq 180 \text{ m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 200 \text{ m}^2$; s3 = not s1 or s2 |
| Flaming Droplets/particles | 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 13501-1:2007+ A1:2009.

4.2 CLASSIFICATION

The product, **coating, type Sigmapearl Clean Matt**, relation to its reaction to fire behaviour is classified:

B

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: B – s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

| | |
|-----------------|---|
| Thickness | Two layers of in total approx. 85 μm |
| Surface density | 260 $\pm 5\%$ g/m^2 |

This classification is valid for the following end use applications:

| | |
|-----------------------------|---|
| Substrate | Non-combustible (class A1/A2 according to EN 13238:2010) |
| Application | Coating for walls and ceilings |
| Air gap | Not applicable |
| Methods and means of fixing | Paint roller, paint brush or paint sprayer |

| | |
|-------------------------------------|----------------|
| Joints | Not applicable |
| Other aspects of end use conditions | All colours |

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

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

5. LIMITATIONS

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



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