

Efectis Nederland P.O. Box 554 | 2665 ZN Bleiswijk Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk The Netherlands +31 88 3473 723 nederland@efectis.com

CLASSIFICATION

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

Classification no. 2019-Efectis-R000569

Sponsor PPG Coatings Europe B.V.

> Technical Center AC-NL Amsterdamseweg 14 1422 AD UITHOORN THE NETHERLANDS

Product name Sigmafix Universal Primer + Sigma Perfect Matt

Prepared by Efectis Nederland BV

Notified body no. 1234

Author(s) E.O. van der Laan M.Sc.

A.J. Lock

Project number ENL-18-000588

Date of issue April 2019

Number of pages 5

All rights reserved.

No part of this publication may be reproduced and/or published without the previous written consent of Efectis Nederland. Submitting the report for inspection to parties who have a direct interest is permitted.



Page 1 / 5







1. INTRODUCTION

This classification report defines the classification assigned to **Sigmafix Universal Primer + Sigma Perfect Matt** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Sigmafix Universal Primer + Sigma Perfect Matt**, will be used as a wall- and ceiling primer + paint

2.2 MANUFACTURER/IMPORTER

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

2.3 PRODUCT DESCRIPTION

Product description:

Sigmafix Universal Primer:

Transparent wall paint primer based on an acrylic resin

- Density approx. 1.0 kg/dm³;
- Painted in 1 layer;
- With a consumption of approx. 125 g/m²;
- Dry layer thickness not determined (substrate absorbs the primer totally).

Sigma Perfect Matt:

Wall paint primer based on an acrylic resin in full shade yellow (UYY)

- Density approx. 1.3 kg/dm³;
- Painted in 2 layers;
- With a consumption of approx. 325 g/m²;
- In total dry layer thickness of approx. 70 µm (substrate absorbs the primer).



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

3.1 APPLICABLE (PRODUCT) STANDARDS

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 ISO 1716:2010 Reaction to fire tests for products - Determination of the

gross heat of combustion (calorific value)

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 Europe B.V. Technical Center AC-NL THE NETHERLANDS	2018-Efectis-R000067 2018-Efectis-R000068	EN 13823:2014 EN ISO 1716:2010

3.3 TEST RESULTS

	Parameter	No. tests	Results			
Test method and test number			Continuous parameter – mean (m)	Compliance with parameters		
EN 13823						
Primer (1 layer) + Paint (2 layers)	FIGRA _{0.2MJ} [W/s]	3	0	-		
	FIGRA _{0.4MJ} [W/s]		0	-		
	THR _{600s} [MJ]		0.7	-		
	LFS < edge		-	Compliant		
	SMOGRA [m ² /s ²]		0.0	-		
	TSP _{600s} [m ²]		36	-		
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant		
EN ISO 1716						
The product is non-homogeneous						
External non-Substantial component(s)		[MJ/m ²]	3.28	Compliant		
Substantial component (substrate CaSi)		[MJ/kg]	0.42	Compliant		
Product as a whole		[MJ/kg]	0.38	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 ≤ 120 W/s and LFS < edge of specimen and THR _{600s} ≤ 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 ≤ 2.0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and $THR_{600s} \le 4.0 \text{ MJ}$, and s1, and d0.
- For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- **s1** = SMOGRA \leq 30 m²/s² and TSP_{600s} \leq 50 m²; **s2** = SMOGRA \leq 180 m²/s² and TSP_{600s} \leq 200 m²;
- **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.

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, Sigmafix Universal Primer + Sigma Perfect Matt, in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

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

d0

Reaction to fire classification: A2 - s1, d0



Efectis Nederland 2019-Efectis-R000569 April 2019 PPG Coatings Europe B.V.

CLASSIFICATION

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Total thickness 70 µm

Surface density (total primer+paint) $0.125 + 0.325 = 0.450 \text{ kg/m}^2$

This classification is valid for the following end use applications:

Substrate Non-combustible (class A1/A2 according to

EN 13238:2010); concrete / stone

Methods and means of fixing Applied by brush, roller or (low pressure) spraying

Joints Not applicable

Other aspects of end use

conditions

Colour represents 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 is only valid for end use application in combination with representative substrate.

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

E.O. van der Laan M.Sc.

Project leader reaction to fire

A.J. Lock

Project leader reaction to fire