

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

Classification no.	2021-Efectis-R001813
Sponsor	Recoat BV Schaafdries 12 5371 NJ RAVENSTEIN THE NETHERLANDS
Product name	<b>Recoat Floor</b>
Prepared by	Efectis Nederland BV
Notified body no.	1234
Author(s)	G. van der Lee M.Sc. B.R. Knottnerus B.Sc. A.J. Lock
Project number	ENL-21-001318
Date of issue	January 2022
Number of pages	5

## 1. INTRODUCTION

---

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

## 2. DETAILS OF CLASSIFIED PRODUCT

---

### 2.1 GENERAL

The product, **Recoat Floor**, will be used as anti-slip floor coating.

### 2.2 MANUFACTURER

Recoat BV  
Schaafdries 12  
5371 NJ RAVENSTEIN  
THE NETHERLANDS

### 2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- Transparent one component water borne primer, reference Recoat Multi Primer, wet layer of thickness of  $70 \pm 10$  micron, resulting in a dry layer thickness of  $30 \pm 5$  micron, with a specific dry density of  $1090 \text{ kg/m}^3$  and a mass per surface area of  $15\text{-}20 \text{ m}^2$  per litre;
- Transparent two component water borne topcoat, reference Recoat (2K) Floor, wet layer of thickness of  $65 \pm 10$  micron, resulting in a dry layer thickness of  $30 \pm 5$  micron, with a specific dry density of  $1250 \text{ kg/m}^3$  and a mass surface area of  $10\text{-}15 \text{ m}^2$  per litre; the mixing ratio of the Recoat Base and the Recoat hardener is 4:1.

## 3. STANDARDS, TEST REPORTS & TEST RESULTS IN SUPPORT OF CLASSIFICATION

---

### 3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN ISO 9239-1:2010	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
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 TEST REPORTS

Name of Laboratories	Name of sponsor	Test reports	Test method
Efectis Nederland BV THE NETHERLANDS	Recoat BV THE NETHERLANDS	2021-Efectis-R001811 2021-Efectis-R001812	EN ISO 11925-2:2020 EN ISO 9239-1:2010

### 3.3 TEST RESULTS

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance Parameters
<b>EN ISO 11925-2</b>				
surface flame impingement	$F_s \leq 150$ mm	6	15	-
	Ignition of filter paper		-	Compliant

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance Parameters
<b>EN ISO 9239-1</b>				
	Critical Heat Flux [kW/m <sup>2</sup> ]	3	15	-
	Smoke density [%.min]		10	-

### 3.4 CLASSIFICATION CRITERIA

Classification criteria of the Flooring Radiant Panel (FRP) test			
Classification criteria			
Class	$B_{fl}$	$C_{fl}$	$D_{fl}$
Test method(s)			
<b>EN ISO 11925-2</b> Exposure = 15 s	$F_s \leq 150$ mm within 20 s		
<b>EN ISO 9239-1</b> Critical flux [kW/m <sup>2</sup> ]	$\geq 8.0$	$\geq 4.5$	$\geq 3.0$
Additional classification			
Smoke production	<b>s1</b> = $\leq 750\%$ min <b>s2</b> = $> 750\%$ min		

## 4. CLASSIFICATION AND FIELD OF APPLICATION

### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 12 of EN 13501-1:2018.

### 4.2 CLASSIFICATION

The product, **Recoat Floor**, in relation to its reaction to fire behaviour is classified:

**B<sub>fl</sub>**

The additional classification in relation to smoke production is:

**s1**

**Reaction to fire classification: B<sub>fl</sub> - s1**

### 4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	Total dry layer: 60 ± 10 micron Total wet applied layer: 135 ± 20 micron
Surface density	Primer layer: 15-20 m <sup>2</sup> per litre Topcoat layer: 10-15 m <sup>2</sup> per litre
Other properties	Primer layer: Recoat Multi Primer Topcoat layer : Recoat (2K) Floor (2 component coat with a mixing ratio of 4:1)

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1, ISO 390 and EN 13238:2010, 1800 ± 200 kg/m <sup>3</sup> – 6 mm)
Air gap	N.A.
Methods and means of fixing	Applied on the substrate with a roller
Joints	N.A.
Other aspects of end use conditions	Closed surface, no openings or gaps between components

### 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.



G. van der Lee M.Sc.  
Project leader Reaction to Fire



B.R. Knottnerus B.Sc.  
Project leader Reaction to Fire



A.J. Lock  
Manager Testing Reaction to Fire