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REPORT

Reaction to fire testing of Recoat Floor
Ignitability test according to EN ISO 11925-2:2020

Report no.	2021-Efectis-R001811
Sponsor	Recoat BV Schaafdries 12 5371 NJ RAVENSTEIN THE NETHERLANDS
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1. PRODUCT IDENTIFICATION

Recoat Floor, further referred to as 'the product'.

2. ABSTRACT

Determination of the **ignitability** properties of the product, by **direct small flame impingement** according to EN ISO 11925-2:2020, with the objective to obtain the reaction to fire classification according to EN 13501-1:2018.

3. DETAILS OF THE PRODUCT TESTED

3.1 INTENDED APPLICATION

The product will be used as anti-slip floor coating.

3.2 MANUFACTURER

Recoat BV
Schaafdries 12
5371 NJ RAVENSTEIN
THE NETHERLANDS

3.3 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 ± 10 micron, resulting in a dry layer thickness of 30 ± 5 micron, with a specific dry density of 1090 kg/m³ and a mass per surface area of 15-20 m² per litre;
- Transparent two component water borne topcoat, reference Recoat (2K) Floor, wet layer of thickness of 65 ± 10 micron, resulting in a dry layer thickness of 30 ± 5 micron, with a specific dry density of 1250 kg/m³ and a mass surface area of 10-15 m² per litre; the mixing ratio of the Recoat Base and the Recoat hardener is 4:1.

4. DETAILS OF THE EXAMINATION

4.1 SAMPLES

Sampling procedure	The samples were submitted by the sponsor. The specimens were prepared and submitted by the sponsor.
Age	At the time of receipt: no information received.
Date of receipt	December 14th,2021

4.2 SPECIMEN PREPARATION

Substrate used	6 mm fibre cement board non-combustible (ISO 390 and class A1/A2 according to EN 13238:2010)
Method of fixing	Applied on the substrate with a roller

4.3 CONDITIONING

Prior to the examinations, the specimens were conditioned until constant mass achieved at a temperature of (23 ± 2) ºC and a relative humidity of (50 ± 5) % according to § 4.1 of EN 13238.

4.4 EXAMINATION

Number of tests	A total of six single ignitability tests were carried out according to EN ISO 11925-2.
Deviations from the test method	None
Harmonised Product Standard	At the time of examination of the product, the sponsor was not aware of a related existing Harmonised Product Standard.
Date of examination	December 20th, 2021
Location of examination	Efectis Nederland BV, Bleiswijk, The Netherlands
Performed by	LEG

The results are given in Table 1, Appendix: Results.

5. CONCLUSIONS

A formal classification is to be assessed in accordance with EN 13501-1, “Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests”.

Remarks:
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Regarding the precision of the test method, following Annex B of EN ISO 11925-2, the absolute repeatability/reproducibility for this test method is estimated to lie within 3 s to 5 s for all times measured.

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APPENDIX: RESULTS

Table 1: Ignitability classification parameter results

Flame application time: 30 s					
Sample	Ignition of sample	Maximum flame Height	t_{150}	Afterburning time	Ignition of filter paper
	{Y=Yes/N=No}	[mm]	[s]	[s]	{Y=Yes/N=No}
Surface ignition					
1	N	15	not reached	-	N
2	N	15		-	N
3	N	15		-	N
4	N	15		-	N
5	N	15		-	N
6	N	15		-	N
Maximum		15			
Classification parameters		**150 mm reached within 60 s**			**N**
		Ignition of filter paper			**N**

Observations of physical behaviour of the test specimen: None.