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CLASSIFICATION OF REACTION TO FIRE in accordance with EVS-EN 13501-1:2007

SPONSOR: Purfin Oy

ADDRESS : Kiperhaantie 8, FI-21250 Masku, Finland

MANUFACTURER: Purfin Oy

ADDRESS : Kiperhaantie 8, FI-21250 Masku, Finland

PREPARED BY: TÜV EESTI OÜ

NOTIFIED BODY No: 1526

PRODUCT NAME : PU-insulation Ekospray 40E with fireresistant finish

CLASSIFICATION REPORT : TEK- 47/11en

ISSUE NUMBER :

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This classification report consists of four (3) pages.



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1. Introduction.

This classification report in accordance with the procedures given in EVS-EN 13501-1:2007 defines the reaction to fire classification assigned to the polyurethane layer with fireresistant finish manufactured by Purfin Oy.

2. Classified product.

2.1 General

Product is defined as a PU-insulation Ekospray 40E with cementitious fireresistant layer Monokote 106HY.

2.2 Description

The composition of tested specimen is listed below:

base board birch veneer 10 mm

PU-insulation Ekospray 40E layer 65 to 100 mm

Monokote 106HY finishing layer 8-15 mm, average 12 mm

3. Test reports / extended application reports and test results in support of the classification.

3.1. Test reports and extended application reports

Test Laboratory	Name of sponsor	Test report and date	Test method
TÜV Eesti OÜ	Purfin Oy	No. 040-11TM of 24.05.2011	EN 13823:2010
		No. 056-11TM of 24.05.2011	EN ISO 11925-2:2010

3.2. Test results

Test method	Parameter	No. tests	Results	
			Continuous parameter	Compliance
EN 13823:2010	Figra 0,2 MJ (W/s)	3	6,8	Compliant
	Figra 0,4 MJ (W/s)		6,8	Compliant
	Total heat release THR 600 s (MJ)		0,2	Compliant
	Lateral flame spread (LFS) to edge of specimen		No	Compliant
EN ISO 11925-2:2010	Flame spread in excess of 150 mm vertically	6	No	Compliant



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4. Classification and field of application

4.1 Reference on classification.

This classification has been carried out in accordance with EVS-EN 13501-1:2007/A1:2009

4.2 Classification.

PU- insulation layer Ekospray 40E covered with Monokote 106HY finishing is classified to class B

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Additional classification in relation to smoke production is: **s1**

- Smoke growth rate (mean) SMOGRA= 1,9 m²/s² (≤ 30 m²/s²)
- Total smoke production (mean) TSP 600s= 32,0 m² (≤ 50 m²)

The additional classification for the product in relation to droplets/particles is: **d0**
(no droplets/particles in 600 sec).

Reaction to fire classification: B - s1, d0

4.3 Field of direct application.

This classification is valid for the following end use applications:

Ekospray 40E PU-insulation layer covered with Monokote 106HY finishing can be applied to vertical and horizontal combustible and noncombustible surfaces excluding floors. Polyurethane layer maximum thickness 100 mm, Monokote 106HY coating average thickness 12 mm.

5. Limitations

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

On behalf and by authority of TÜV Eesti OÜ.

Prepared by Fred Haas

Head of the laboratory

Approved by Peter-Lorenz Schmidt

Director of TÜV Eesti OÜ