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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

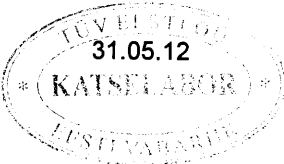
PREPARED BY: TÜV EESTI OÜ

NOTIFIED BODY No: 1526

PRODUCT NAME : PU-insulation Ekospray 40E with Sika Unitherm Wood P coating

CLASSIFICATION REPORT : TEK- 76/12en

ISSUE NUMBER : *VÄLJA LÄINUD*  
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Classification report no. TEK-76/12 en

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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 foam layer by Purfin Oy covered with fire retardant paint by Sika Österreich GmbH.

## 2. Classified product.

### 2.1 General

Product is defined as a PU-insulation Ekospray 40E with fire retardant paint coating.

### 2.2 Description

The product was sprayed in layers 15-25 mm to veneer board. Overall layer varied from 50 to 65 mm. The excessive material was cut off from unexposed side of the specimens to achieve thickness 50 mm.

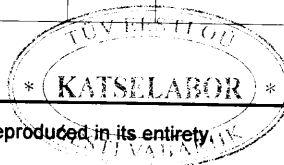
## 3. Test reports / extended application reports and test results in support of the classification.

### 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. 007-12TM<br>of 31.05.2012 | EN 13823:2010                           |
| TÜV Eesti OÜ    | Purfin Oy       | No. 060-11TM<br>of 21.09.2011 | EN ISO 11925-2:2010<br>surface exposure |
| TÜV Eesti OÜ    | Purfin Oy       | No. 070-11TM<br>of 01.11.2011 | EN ISO 11925-2:2010<br>edge exposure    |

### 3.2. Test results

| Test method         | Parameter   | No. tests | Results              |            |
|---------------------|---|-----------|----------------------|------------|
|                     |   |           | Continuous parameter | Compliance |
| EN 13823:2010       | Figra 0,2 MJ (W/s)  | 5         | 303                  | Compliant  |
|                     | Figra 0,4 MJ (W/s)  | 5         | 114                  |            |
|                     | THR 600 s (MJ)  | 5         | 3,9                  |            |
|                     | LFS to edge   | 5         | Did not reach        |            |
|                     | SMOGRA (cm <sup>2</sup> /s <sup>2</sup> )                                 | 5         | 133,4                |            |
|                     | TSP 600 (m2)  | 5         | 199,8                |            |
|                     | Burning particles/drops   | 5         | No drops             |            |
| EN ISO 11925-2:2010 | Flame spread in excess of 150 mm vertically (applied to edge and surface) | 12        | Did not reach        | 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 with fire retardant paint layer is classified to:

| Fire behaviour |   | Smoke production |   |   | Flaming droplets |   |
|----------------|---|------------------|---|---|------------------|---|
| C              | - | s                | 2 | - | d                | 0 |

**Reaction to fire classification: C-s2,d0**

##### 4.3 Field of direct application.

This classification is valid for the following end use applications:

Ekospray 40E PU-insulation layer can be applied to vertical and horizontal combustible and noncombustible surfaces. Polyurethane layer thickness 0-65 mm. Fire retardant paint must be applied with pumpspray in one layer of 560 (g/m<sup>2</sup>) ±5%.

#### 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 and approved by Fred Haas Head of the laboratory

