

# **Report of the classification of the reaction to fire behaviour**

**No. 230011297-2**  
**issued 23 January 2018**

**English version**

**Sponsor :** Silikal GmbH  
Ostring 23  
  
63533 Mainhausen  
GERMANY

**Order:** Reaction to fire classification according to DIN EN 13501-1

**Dat of order:** 08.11.2017

**Name of the building product which is to be classified:**

**Floor coating named: „Silikal Beschichtungssystem C Farbchipsdekor“**

This report defines the classification of the above-mentioned building product in conformity with the method specified in DIN EN 13501-1.

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This classification report consists of 3 pages.

## 1 Description of the building product

The building product designated „Silikal Beschichtungssystem C Farbchipsdekor“ is a floor coating with the following structure:

The floor coating consists of the primer „Silikal R 52“ with an applied quantity of approx. 0.40 kg/m<sup>2</sup>. After that, the main layer „Silikal R 62, filling material SV and pigment“ must be applied onto the primer with an applied quantity of 6.02 kg/m<sup>2</sup>. After applying the main layer the „Silikal Farbchips“ must be intersperced with an amount of 0.5 kg/m<sup>2</sup> kg/m<sup>2</sup>. After that, the first sealing layer „Silikal R 72“ is to be applied with an amount of approx. 0.40 kg/m<sup>2</sup>, then the second sealing layer „Silikal R 72“ must be applied with an amount of approx. 0.40 kg/m<sup>2</sup>

## 2 Test reports and test results which form the basis of the classification

### 2.1 Test reports

Name of the laboratory	Sponsor	Number of the test report	Test method
MPA NRW	Silikal GmbH Ostring 23 63533 Mainhausen GERMANY	230011297-1 vom 23.01.2018	EN ISO 9239 – 1 EN ISO 11925 – 2 (15 s Flame impingement)

### 2.2 Test results

Test method	Parameter	Number of tests	Test results	
			Average values	Requirements fulfilled
DIN EN ISO 11925 15 s Flame impingement	Flame Spread ≤ 150 mm	6	--	yes
DIN EN ISO 9239-1	Critical Heat Flux (kW/m <sup>2</sup> )	3	4.9	--
	Smoke (%xmin)	3	35	--

### 3 Classification and direct field of application

#### 3.1 Reference

The classification was carried out in accordance with clauses 12 and 14.2 of the standard DIN EN 13501-1:2010-01.

#### 3.2 Classification

The classification assigned to the tested floor coating with regard to its reaction to fire is:

**C<sub>fl</sub>**

The additional classification with regard to smoke production is:

**s1**

This results in the following reaction to fire classification of the tested floor coating:

Reaction to fire		Smoke production
<b>C<sub>fl</sub></b>	--	<b>s1</b>

i.e. **C<sub>fl</sub> – s1**

#### 3.3 Field of application of the product

The classification is only valid for the building product described in clause 1 when it is used as floor coating applied on substrates classified as Euro class A1 or A2 according to DIN EN 13501-1 with a raw density of at least 1350 kg/m<sup>3</sup>.

### 4 Restrictions

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

This classification report written in English language is issued additionally to the report written in German language with the same report number. In case of doubt, the German version is solely valid.

Erwitte, 23.01.2018



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