

# Report of the classification of the reaction to fire behaviour

**No. 230010836-2**  
issued 15.02.2017

**English version**

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

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

**Date of order:** 02.01.2017

**Name of the classified building product:**

**Floor covering named:** „Silikal R 61/SL pigmentiert“

This report determines the classification of the above-mentioned building product in accordance with the method defined in DIN EN 13501-1:2010-01.

## 1 Description of the building product

The building product named „Silikal R 61/SL pigmentiert“ is a floor covering and is composed as follows:

The floor covering consists of the primer „Silikal R 52“ with an applied quantity of approx. 0.40 kg/m<sup>2</sup>. Then the coating „Silikal R 61/SL“ has to be applied on the primer with an applied quantity of 7.14 kg/m<sup>2</sup>. Directly after the coating has been applied, „Silikal Farbsand“ must be strewed in with application rate of approx. 3.0 kg/m<sup>2</sup> to 4.0 kg/m<sup>2</sup>. After that the „Silikal Versiegelung“ (sealing) is applied in two layers with an applied quantity of approx. 0.50 kg/m<sup>2</sup> and 0.30 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	230010836-1 of 15.02.2017	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	Requirement 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	6.4	--
	Smoke (%xmin)	3	48	--

### 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 covering 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 covering:

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 covering on substrates of Euro class A1 or A2 according to DIN EN 13501-1 with a raw density of at least 1350 kg/m<sup>3</sup>.

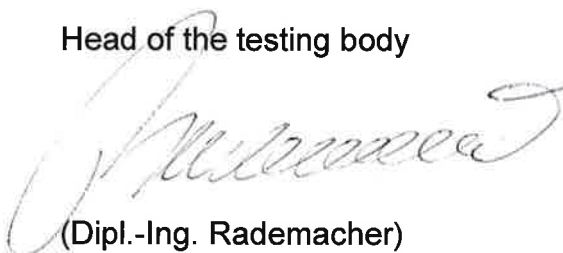
### 4 Restrictions

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, 15.02.2017


Head of the testing body



(Dipl.-Ing. Rademacher)



Person in charge



(W. Brune)

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