

# Report of the classification of the reaction to fire behaviour

**No. 230009478-2**  
issued 8 July 2014

**English version**

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

**Order:** Classification of the reaction to fire behaviour  
according to DIN EN 13501-1

**Order date:** 5 May 2014

**Designation of the classified building product:**

Coating system named „System C“

---

This report determines the classification of the above-mentioned building products in accordance with the procedure defined in DIN EN 13501-1.

## 1 Description of the classified building products

The building product named „System C“ is a coating system and is composed as follows:

- Primer: Silikal R 52, Ch. 5-327 384 with 3 % hardener powder  
 Application rate: 325 g/m<sup>2</sup>
- Coating: Silikal R 62, Ch. 11-327 492, filling material SV und pigment powder  
 Preparation: 1722 g R 62  
                   3346 g filling material SL  
                   98 g pigment powder  
                   34 g hardener powder  
 Application rate: 5 kg/m<sup>2</sup>
- All-over interspersation of coloured chips compound, 3 mm  
 Application rate: 0.6 kg/m<sup>2</sup>
- Sealing with Silikal R 72, Ch. 0-327 057 and 2% hardener powder  
 Application rate: 400 g/m<sup>2</sup>  
 Coating thickness: 3.8 mm ±10%

## 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	230009478-1 of 08.07.2014	<b>DIN EN ISO 11925 – 2</b>

### 2.2 Test results

Test method	Number of tests	Parameter	Test results
<b>DIN EN ISO 11925-2 Flame impingement 15 s</b>	<b>12</b>	<b>F<sub>s</sub> (mm) Flaming droplets / particles</b>	<b>≤150 no</b>

### 3 Classification and direct field of application

#### 3.1 Reference

The classification was carried out in accordance with clauses 11, 14.1 and 14.2 of the standard DIN EN 13501-1 : 2010.

#### 3.2 Classification

The classification assigned to the material with regard to its reaction to fire is: **E / E<sub>fl</sub>**

The additional classification with regard to flaming droplets/particles is: --

The additional classification with regard to smoke production is: --

This results in the following reaction to fire classification of the material:

Reaction to fire	Flaming droplets / particles	Smoke production
<b>E / E<sub>fl</sub></b>	--	--

i.e. **E / E<sub>fl</sub>**

#### 3.3 Field of application

The classification is solely valid for the building product described in clause 1 when it is used as coating system applied onto mineral substrates which are classified as class A1 and A2-s1,d0 according to DIN EN 13501-1 and which have a density of at least 1350 kg/m<sup>3</sup> and a thickness of at least 6 mm.

#### 3.4 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, 8 July 2014

Head of the testing body

(Dipl.-Ing. Rademacher)



Engineer in charge

(W. Brune)

Date of issue of this English version: 2 September 2014