

Report on the Classification of Reaction to Fire

No. 231002047-3.1 dated 20.03.2024

Client

Silikal GmbH
Ostring 23
63533 Mainhausen

Order: Classification of reaction to fire in accordance with DIN EN 13501-1

Order date: 02.11.2023

Designation of the building product to be classified:

Floor coating designated "Silikal System D Cold Room".

This report determines the classification of the above-mentioned building product in accordance with the procedure specified in DIN EN 13501-1:2019-05.

1 Description of the Building Product

Floor coating designated 'Silikal System D Cold Room'.

The floor coating has the following build-up:

	Material	Consumption /m ²
Primer	Silikal RU 380	0.4 kg/m ² , 1.5 % Silikal BPO Hardener
Main Layer	Silikal RU 368	2 kg/m ² , MV 1:2 ; 2 % Silikal BPO Hardener
	Silikal FS SL	4 kg/m ²
Broadcast 1	Silikal Filler FM No. 1	approx. 4.0 kg/m ² (excess)
Sealer	Silikal R 62	0.5 kg/m ² , 2 % Silikal BPO Hardener
	Silikal R 62	0.4 kg/m ² , 2 % Silikal BPO Hardener

Total area weight of the coating (dry): approx. 11.42 kg/m²

Colour of the coating: grey

2 Test Reports and Test Results on Which the Classification is Based

2.1 Test Reports

Name of laboratory	Client	Test report number	Test method
MPA NRW	Silikal GmbH Ostring 23 63533 Mainhausen	231002047-1.1 dated 20.03.2024	DIN EN ISO 9239-1
MPA NRW	Silikal GmbH Ostring 23 63533 Mainhausen	231002047-2.1 dated 20.03.2024	DIN EN ISO 11925-2

2.2 Test Results

Test procedure	Number of tests	Parameter	Test results
DIN EN ISO 13823	3	critical heat flux (kW / m ²)	6,8
		smoke development (% x min)	80
DIN EN ISO 11925-2 Flame application: 15 s	6	F _s (mm) burning droplets / particles	≤ 150 no

3 Classification and Direct Field of Application

3.1 Reference

The classification was carried out in accordance with Sections 12 and 14.2 of DIN EN 13501-1:2019-05.

3.2 Classification

The material is classified with respect to its reaction to fire as:

C_{fl}

The additional classification with respect to smoke development is:

s1

This results in the following reaction-to-fire classification for the material:

Reaction to fire	Smoke development
C_{fl}	s1

i.e.

C_{fl}-s1

3.3 Field of Application of the Product

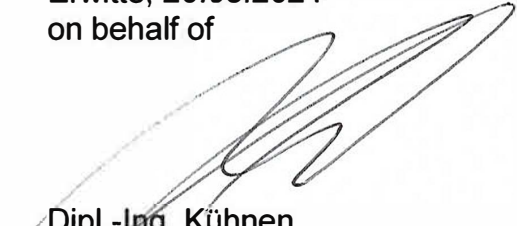
The classification applies only to the building product described in Section 1 when used as a horizontally installed floor covering on substrates of classes A1 or A2-s1, d0 in accordance with DIN EN 13501-1 (classification of reaction to fire). These substrates must have a thickness of ≥ 6 mm and a density of ≥ 1350 kg/m³.

4 Restrictions

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

Erwitte, 20.03.2024

on behalf of


Dipl.-Ing. Kühnen
(Deputy Head of the Testing Centre)




Dipl.-Ing. Olaf Rickert
(Responsible officer)