

# SILIKAL® System C: Flakes



**Expect more from your floor.**

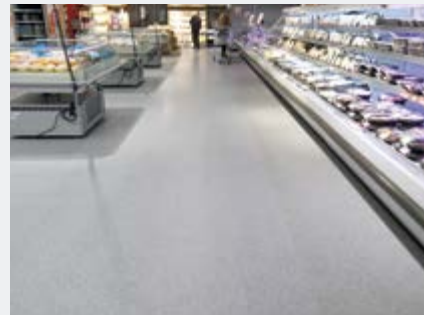
SILIKAL® System C – Flakes is a fast curing, decorative, hard wearing, methyl methacrylate coating. Coloured flakes are broadcasted in the system to achieve a decorative, modern contemporary finish. Choose from various colours and design a floor with your favourite colour combination. SILIKAL® System C is ideal for renovations and new projects because it reduces downtime to a minimum.

## Uses

- ▶ Mainly dry areas
- ▶ Supermarkets, shops
- ▶ Restaurants, cafes, bars, hotels, cinemas, casinos
- ▶ Schools, universities, hospitals, kindergartens
- ▶ Museums

## Advantages

- ▶ Extremely short curing time. One hour after application of the last layer full mechanical and chemical resistant
- ▶ Excellent chemical resistance
- ▶ High mechanical resistance
- ▶ Variable slip resistance
- ▶ Seamless and hygienic finish
- ▶ Easy to clean and maintain
- ▶ Certified by HACCP International
- ▶ Outstanding resistance to ageing and weathering
- ▶ Application is possible on various substrates
- ▶ Good UV resistance
- ▶ Various colours



Certified Quality and Ecology Management Systems  
Reg. No. 73 100 / 104 663



Certified according to AgBB evaluation scheme



Our systems comply with the Halal european guidelines



Our systems are certified by HACCP international

## System configuration

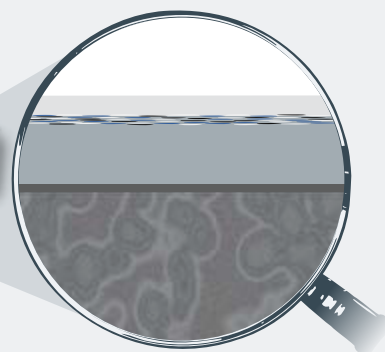
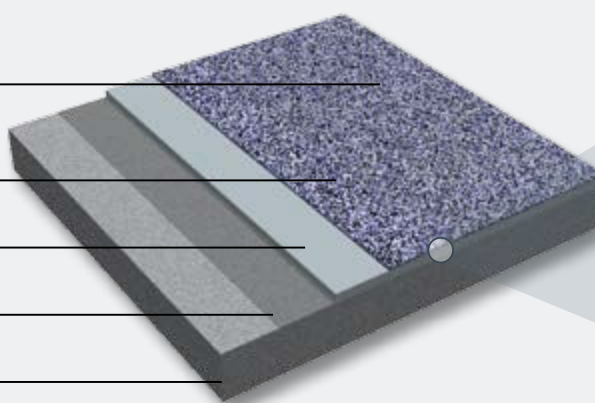
**Silikal Top Coat**

**Silikal Coloured Flakes Broadcast**

**Silikal Main Coat**

**Silikal Primer**

**Base**



# SILIKAL® System C: Flakes

Self-levelling MMA system with flake broadcast

## Substrate requirements

Cementitious substrates must be free of laitance, dust, oil, fat, grease and other contamination. The substrate should have a compressive strength of minimum 25 N/mm<sup>2</sup>, a pull-off strength of at least 1.5 N/mm<sup>2</sup>. The substrate must be dry and the moisture content below 4 CM-%. An adequate damp proof membrane must be installed underneath of the concrete slab.

## Products

- ▶ Silikal Standard Primer like SILIKAL® Resin R 51 (Primer depends on the substrate. Please refer to the Silikal Primer Table or contact our technical department.)
- ▶ Silikal Main Coat consists of SILIKAL® Resin R 62 or comparable, SILIKAL® Filler SV with pigment powder like SILIKAL® Pigment
- ▶ Silikal Coloured Flakes
- ▶ Silikal Top Coat like SILIKAL® Resin R 72 or comparable

For complete technical details, material consumption, hardener quantities, guideline recipes please refer to the latest Silikal Technical Documentation and Product Data Sheet of the relevant products or consult our technical department.

## Technical Data

Curing time:	1 hour
Slip resistance:	R10 (DIN 51130)
Compressive strength:	45 N/mm <sup>2</sup> (EN ISO 604)
Tensile strength:	10 N/mm <sup>2</sup> (EN ISO 527-2)
Flexural strength:	25 N/mm <sup>2</sup> (EN ISO 527-2)
Abrasion resistance:	Class AR 1 – Heavy duty
Temperature resistance:	0 °C to +60 °C (+80 °C for short periods, e.g. for cleaning purposes)
Chemical resistance:	Refer to Silikal Chemical Resistance Table
Water Vapour Permeability:	Class II (EN ISO 7783-2)
Fire behaviour:	C <sub>fl</sub> -S1 (EN ISO 13501-1)
Thickness:	2 – 4 mm
Colour Range:	Please refer to Silikal Colour Concept

## Application

Only approved applicators, licensed by Silikal should be used for application. Please contact Silikal to obtain details of your local qualified applicator.

## Cleaning and Maintenance

Please refer to our Silikal Cleaning Manual.

## Safety and Hygiene

SILIKAL® System C is in compliance with regulation (EC) 1935/2004 on materials intended to come into contact with food and repealing directives (ISEGA) and certified by HACCP International. For food processing companies it is essential to use a floor coating like the Silikal systems which fulfill the criteria of HACCP in terms of hygiene and food safety. Please refer to most recent Material Safety Data Sheets for chemical, physical and other safety-related data.

## Warranty

Silikal warrants that materials shipped to buyers are at the time of shipment substantially free from material defects and will perform according to Silikal published literature if used strictly in accordance with Silikal's prescribed procedures.

## Service

For further information or support please contact Silikal directly.



The team at Silikal has a wealth of experience, which means that we can always provide the best practical approach to your challenges. If you have any questions or would like to find out more, we would be pleased to hear from you and will do our very best to help.

Contact us. We would be pleased to go into detail with you – at no cost or obligation to you, of course.



Silikal production and administration in Mainhausen, near Frankfurt/Main, Germany.



**Expect more from your floor.**

## Silikal GmbH

Reactive resins and polymer concrete for industrial flooring and civil engineering projects

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