

# SILIKAL® System PU Concrete S



**Expect more from your floor.**

SILIKAL® System PU Concrete S is a 4-component, polyurethane concrete screed. It is used as a heavy duty, hard wearing coating system with outstanding mechanical and thermal resistance. Installation thickness 4 – 6 mm.

## Uses

- ▶ Areas with the requirement of high heat resistance

## Advantages

- ▶ Self Levelling
- ▶ High compressive strength
- ▶ High mechanical resistance
- ▶ Heat resistant to 95 °C
- ▶ Low odour during application



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



Our systems comply  
with the Halal  
european guidelines



Our systems are certified  
by HACCP international

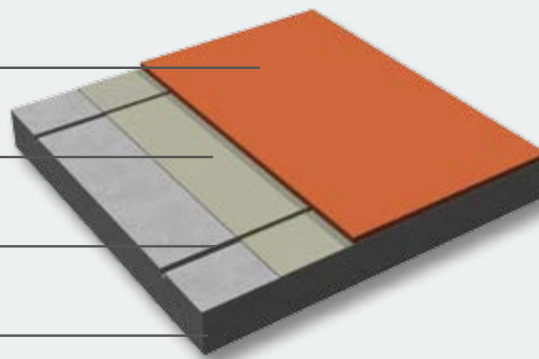
## System configuration option 1

**SILIKAL® PU Concrete S**

**Silikal Standard Epoxy Primer**

**Anchor Cuts**

**Base**



## System configuration option 2 with increased slip resistance

**SILIKAL® PU Concrete Top Coat**

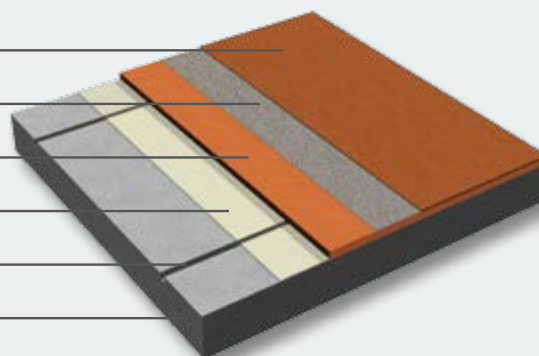
**Silikal Quartz Broadcast**

**SILIKAL® PU Concrete S**

**Silikal Standard Epoxy Primer**

**Anchor Cuts**

**Base**



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Polyurethane concrete screed (4 – 6 mm)

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Polyurethane concrete screed (4 – 6 mm)

## 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 4.5 CM-%. An adequate damp proof membrane must be installed underneath of the concrete slab.

## Surface Preparation

Shot blasting is mandatory. Anchor cuts need to be installed ~15 cm from the wall in the building, edges and on both sides of a joint. Depth and width of the anchor cuts should be according to the thickness of SILIKAL® PU Concrete S layer.

## Products

- ▶ Silikal Standard Epoxy Primer like SILIKAL® Resin RE 55
- ▶ SILIKAL® PU Concrete S

Optional:

- ▶ SILIKAL® Quartz
- ▶ SILIKAL® PU Concrete S Top Coat

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:	walkable after 16 hours light traffic after 24 hours fully cured after 7 days
Slip resistance:	R11 to R13 (DIN 51130) depending on the clients requirements
Compressive strength:	50 N/mm <sup>2</sup>
Tensile strength:	12 N/mm <sup>2</sup>
Flexural strength:	20 N/mm <sup>2</sup>
Temperature resistance:	+10 °C to +70 °C (+95 °C for short periods, e.g. for cleaning purposes)
Chemical resistance:	Refer to Silikal Chemical Resistance Table
Fire behaviour:	E <sub>n</sub> (EN ISO 13501)
Thickness:	4 – 6 mm
Colour Range:	Grey, Green, Red, Ochre

## 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.

## 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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