

# SILIKAL® AS / ESD



**Expect more from your floor.**

SILIKAL® AS / ESD is a high-grade, electrically conductive / anti-static coating system.

Depending on your requirements you can choose between high graded ESD flooring system with conductivity  $10^4 - 10^6$  Ohm or fast curing anti-static flooring system with surface conductivity  $10^6 - 10^8$  Ohm.



## Uses

- ▶ Moderate to high mechanical stresses in areas where an antistatic or electrically conductive floor is required.
- ▶ Semiconductor industry
- ▶ Electronic industry
- ▶ Operating theatre

## Anti-static coating

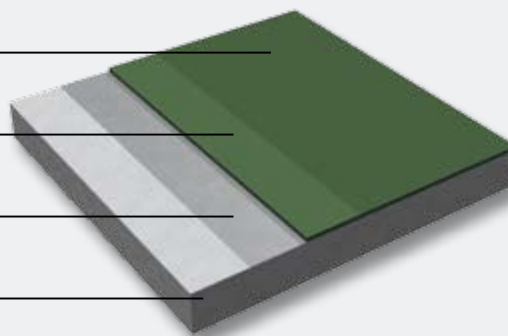
### System configuration

**Silikal Pigmented Top Coat AS**

**Silikal Pigmented Main Coat**

**Silikal Primer**

**Base**



### 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 SL with pigment powder like SILIKAL® Pigment
- ▶ Silikal Anti-Static Top Coat like SILIKAL® Resin R 72 with SILIKAL® Pigment AS

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
Compressive strength:	45 N/mm <sup>2</sup> (DIN 1164)
Tensile strength:	25 N/mm <sup>2</sup> (DIN 1164)
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)
Thickness:	~2 – 4 mm
Colour Range:	Please refer to Silikal Colour Concept

# SILIKAL® AS / ESD

Anti-Static / Conductive floor coating system

## Electrically conductive coating

### System configuration

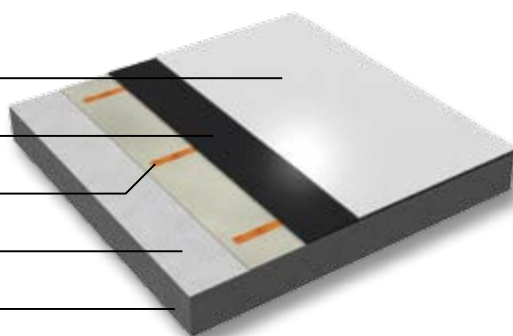
Silikal Conductive Top Coat

Silikal Conductive Coat

SILIKAL® Copper Tape

Silikal Scratch Primer

Base



### 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 Scratch EP Primer like SILIKAL® Resin RE 55 (Primer depends on the substrate. Please refer to the Silikal Primer Table or contact our technical department.)
- ▶ SILIKAL® Copper Tape
- ▶ Silikal Conductive Coat like SILIKAL® Resin RE 513
- ▶ Silikal Conductive Top Coat like SILIKAL® Resin RE 517

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:	Treatable/resistant to work/foot traffic – after 16 – 20 hours Resistant to light mechanical stresses – after 2 – 3 days Fully resistant to chemical and mechanical stresses – after 7 days
Minimum hardening temperature:	+10 °C (room and floor temperature)
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)
Electrical resistance floor/footwear	$7.5 \cdot 10^5 \leq R_g \leq 3.5 \cdot 10^7 \Omega$ (DIN EN 61340-5-1)
Thickness:	~1.3 – 1.5 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.

### 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

Ostring 23

63533 Mainhausen – Germany

Phone: +49 (0) 61 82 / 92 35-0

Fax: +49 (0) 61 82 / 92 35-40

mail@silikal.de

[www.silikal.de](http://www.silikal.de)