

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-916 Hybrid

Highly reactive, coloured, impregnating lithium-silicate floor sealer

### DESCRIPTION

Sikagard<sup>®</sup>-916 Hybrid is a 2-part, highly reactive, coloured, hybrid lithium-silicate sealer for impregnating concrete floors and screeds. It provides a dust-free, dense floor surface that reduces dirt contamination and the penetration of water-based liquids, acids, grease and oils. It makes the surface easier to clean with less maintenance.

### USES

Sikagard<sup>®</sup>-916 Hybrid is used for the following applications:

- As a sealer for impregnating cementitious substrates in industrial and commercial areas

Sikagard<sup>®</sup>-916 Hybrid is used on the following substrates:

- New or old concrete floors

Sikagard<sup>®</sup>-916 Hybrid is used for interior and exterior applications.

Please note:

- The Product may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- Penetrates the floor surface and reacts with the cementitious substrate
- Good water vapour permeability
- Provides a dust-free, easy-to-clean surface
- Reduces the penetration of water-based liquids, acids, grease and oils

### APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Impregnation

### PRODUCT INFORMATION

<b>Chemical Base</b>	Lithium-silicate hybrid	
<b>Packaging</b>	Container Part A	9.7 kg container
	Container Part B	0.3 kg container
	Container Part A + Part B	10 kg
Refer to the current price list for available packaging variations.		
<b>Shelf Life</b>	12 months from date of production	
<b>Storage Conditions</b>	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

<b>Appearance / Colour</b>	Cured colour	Platinum grey, slate grey
<b>Density</b>	Mixed Product	1.2 kg/L (EN ISO 2811-1)

## APPLICATION INFORMATION

<b>Consumption</b>	Smooth surfaces	0.2–0.25 kg/m <sup>2</sup> per coat (2 coats minimum)
	Undulating or rough surfaces	0.3–0.35 kg/m <sup>2</sup> per coat (2 coats minimum)

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

<b>Product Temperature</b>	Maximum	+25 °C
	Minimum	+10 °C

<b>Ambient Air Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C

<b>Relative Air Humidity</b>	Maximum	70 % r.h.
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<b>Substrate Temperature</b>	Maximum	+25 °C
	Minimum	+10 °C

<b>Substrate Moisture Content</b>	<b>Substrate</b>	<b>Test method</b>	<b>Moisture content</b>
	Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %
No rising moisture (ASTM D4263, polyethylene sheet)			

<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>
	+10 °C	90 minutes
	+20 °C	60 minutes

<b>Waiting Time / Overcoating</b>	For Product-on-Product application:	
	<b>Temperature</b>	<b>Waiting time</b>
	+10 °C	36 hours
	+20 °C	24 hours
+30 °C	12 hours	

Note: Times are approximate and will be affected by changing ambient and substrate conditions.

<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Tack-free</b>	<b>Light exposure</b>	<b>Full cure</b>
	+ 20 °C	5 hours	48 hours	7 days

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

# APPLICATION INSTRUCTIONS

## EQUIPMENT

### SUBSTRATE PREPARATION

- Wet cleaning equipment with black cleaning pads
- Vacuum cleaner

### MIXING

- Single-paddle electric stirrer
- Clean mixing container

### APPLICATION

- Nylon roller
- Paint roller grid
- Single-disc machine and 3000-grit high-speed diamond burnishing pad

### SUBSTRATE PREPARATION

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

1. Prepare substrates mechanically by wet cleaning using black cleaning pads.
2. Completely remove all dust, loose and friable material from all surfaces, preferably by vacuum extraction equipment.

### MIXING

#### IMPORTANT

#### Reduced Product performance due to use after end of pot life

1. Do not use mixed material older than 60 minutes.
1. **IMPORTANT** Mix full units only. Mix part A (resin) separately using a low-speed single-paddle electric stirrer (300–400 rpm) to mix liquid and all coloured pigment until the mixture achieves a uniform colour.
2. Add part B (hardener) to part A and mix both parts continuously for 3 minutes until the mixture achieves a uniform colour.
3. **IMPORTANT** Avoid over-mixing to minimise air entrainment. Pour the materials into a clean container and mix again for at least 1 minute to achieve a consistent mix and to ensure thorough mixing.

Note: Total mixing time is 4 minutes.

## APPLICATION

#### IMPORTANT

#### Risk of poor finish and performance due to curing conditions

1. Protect the finished surfaces from moisture and water until full cure.
2. Ensure adequate ventilation while curing.
3. Ensure temperatures do not fall below +10 °C during the curing time.

1. Use a nylon roller to apply the mixed Product evenly on to the prepared substrate at the required consumption rate.

Note: Use a paint roller grid to wipe off excess material.

2. Leave the first layer to dry for 1–3 hours, depending on the ambient conditions.
3. Apply a second layer in two directions at right angles to each other, to achieve a uniform finish.
4. Wait for 24–48 hours, then polish the surface to obtain a glossy appearance using a 3000-grit high-speed diamond burnishing pad.

#### Product wear in heavily-used areas

Note: The Product does not provide the same extent of acid protection or durability as an epoxy resin coating. Consider using epoxy coatings in heavily-used areas instead.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which

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will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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