

SILIKAL® RE 515 is a high-grade, pigmented, solvent-free 2-component coating system.

Properties

- Abrasion-resistant
- Self-levelling
- Glossy
- Resistant to chemicals
- Can be filled with quartz sand
- Easy to process

Areas of application

- For medium to high mechanical stresses
- For cement-bonded substrates
- Also as non-slip coating in dry and wet areas
- For interiors

Technical data

Mixing ratio	Component A (resin) = 5 parts by weight Component B (hardener) = 1 part by weight
Specific weight (mixture)	1.48 kg/l
Solid content	> 99 weight % (works standard)
Minimum hardening temperature	+10 °C (room and floor temperature) Note the dew point!
Optimum processing temperature	+15 to +25 °C
Pot life at +20 °C	40 min
Curing time at +20 °C	- Treatable/resistant to work/foot traffic – after 24 hours - Resistant to light mechanical stresses – after 2 – 3 days - Fully resistant to chemical and mechanical stresses – after 7 days
Coating thickness	1.3 – 5.0 mm
Quartz sand addition	Recommended from a layer thickness of 2 mm Up to 50 % depending on the application and temperature
Taber abrasion (CS 10/1000 U/1000 g)	60 mg
Consumption	1.45 kg/m ² per mm of thickness

High temperatures reduce and low temperatures lengthen all times given. The consistency, degree of filling and consumption will vary. Generally a temperature change of 10 °C will result in the times given halving or doubling.

Substrate

Cement-bonded substrates must be sound, dry and free of laitance, loose parts, oil, dust, grease and substances which could act as releasing agents.

Suitable measures must be taken to prepare the surface, e.g. by shot blasting and/or milling, so that the listed requirements are met.

The cohesive strength of the substrate must be at least 1.5 N/mm². The moisture content of the surface to be coated must not exceed 4.5 CM %.

See also the leaflet "Substrate preparation".

Advice on application

Components A and B are supplied in the correct ratio for mixing. The entirety of the hardener (comp. B) is added to the basic component (comp. A). Mixing is done by a machine (agitator at 300 - 400 rpm) and should last for at least 3 minutes until a homogeneous, non-streaky mixture is obtained. The mixed material must be poured into a clean pail and mixed again briefly.

The material is applied with a notched trowel or scraper blade. Work in with a spike roller to ensure de-aeration. Rolling with the spiked roll should take place with a time lag of 10 – 20 min.

Do not apply at temperatures below +10 °C and with relative humidity above 75 %.

To ensure good air exchange (dry air), provide ventilation and aeration during the drying and hardening phase.

Between the individual operations it is absolutely essential that no moisture or contamination is allowed to penetrate.

Always heed the danger warnings and safety advice shown on the container and follow the regulations laid down by the relevant employers' liability insurance association. Refer to the safety data sheet for further information on the physical, toxicological and ecological properties of the product.

Building up the coating

1. Prepare the substrate.

scratch coat with 1 part by weight of SILIKAL® RE 55 and 1 part by weight of quartz sand mixture (50 % quartz powder, 50 % quartz sand 0.1 – 0.4 mm). Refer to the technical data sheet for more information.

2. Apply a coating layer with SILIKAL® RE 515.

Optional - to produce a slip-resistant topping:

3. Sprinkle the whole area with fire-dried quartz sand (or coloured sand) of grain size 0.3 – 0.8 mm or 0.7 – 1.2 mm, depending on the desired slip resistance.

4. Brush and vacuum away the excess sand.

5. Apply the top coat SILIKAL® RE 516 or, with coloured sand sprinkled in, colourless sealer SILIKAL® RE 77, consumption 0.6 – 1 kg/m².

Consumption:

approx. 0.6 – 1.1 kg/m² depending on the desired slip resistance

Refer to the technical data sheet for more information.

Delivery form and shades

- 10 kg combination container
- 30 kg combination container

Standard shades

Light fastness

All epoxy resin-based products will tend to yellow. This does not affect the mechanical properties of the cured coating.

Shelf life

1 year if stored in the unopened original container in a cool (< +25 °C), dry and frost-free location.

Do not expose to direct sunlight!

Equipment cleaning

The tools must be washed thoroughly with a suitable solvent immediately after use.

Labelling

Giscode: RE 1

A component: Irritant, hazardous to the environment.

B component: Caustic.

EU Directive 2004/42/EC (VOC Paints Directive)

The maximum VOC content permitted in EU Directive 2004/42 (product category IIA/j type Lb) in the ready-to-use state is 500 g/l (limit 2010).

The maximum VOC content of SILIKAL® RE 515 in the ready-to-use state is < 500 g/l.

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Silikal product information

Issue RE/RU 4.01.A

March 2010

SILIKAL® RE 515 data sheet

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