

SILIKAL® RE 516 is a high-grade, pigmented 2-component sealer that is used to provide a coloured top coat in the production of non-slip sprinkled toppings.

Properties

- Abrasion-resistant
- Good covering capacity
- Glossy
- Resistant to chemicals
- Specially for slip-resistant toppings
- Easy to process

Areas of application

- For medium to high mechanical stresses
- Non-slip coatings in dry and wet areas
- For cement-bonded substrates
- For interiors

Technical data

Mixing ratio	Component A (resin) = 5 parts by weight Component B (hardener) = 1 part by weight
Specific weight (mixture)	1.6 kg/l
Solid content	> 99 % by weight
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	approx. 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
Taber abrasion (CS 10/1000 U/1000 g)	55 mg
Consumption	0.6 – 1.1 kg/m ²

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 flattened over the grain using the smoothing trowel or a rubber trowel and then rerolled with the roller to ensure even distribution.

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.
2. Apply a mixture of scratch coat SILIKAL® RE 55 and quartz sand. Refer to the technical data sheet for more information.
3. Apply a 2 – 3 mm main coat of SILIKAL® RE 515. Refer to the technical data sheet for more information.
4. Sprinkle the whole area with fire-dried quartz sand of grain size 0.3 – 0.8 mm or 0.7 – 1.2 mm, depending on the desired slip resistance.
5. Brush and vacuum away the excess.
6. Apply the top coat of SILIKAL® RE 516.

Consumption:

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

Chemical resistance

When completely cured, surfaces protected with SILIKAL® RE 516 are resistant to diluted acids and lyes, engine and heating oil.

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: Corrosive.

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 516 in the ready-to-use state is < 500 g/l.