

SILIKAL® RE 27 W is a water-emulsified, pigmented, permeable to moisture, 2-component epoxy resin sealer.

### Properties

- Open to water vapour diffusion
- Outstanding adhesion
- Low odour
- Good coverage
- Matt satin

### Areas of application

- For light to moderate mechanical and chemical stresses
- In interiors on concrete, cement screed, magnesite and mastic asphalt screed, for reworking old EP toppings.

### Technical data

Mixing ratio	Component A (resin) = 1 part by weight Component B (hardener) = 5 parts by weight
Specific weight (mixture)	approx. 1.3 kg/l
Minimum hardening temperature	+15 °C (room and floor temperature) Note the dew point!
Optimum processing temperature	+15 to +25 °C
Pot life at +20 °C	30 min
Curing time at +20 °C	- Treatable/resistant to work/foot traffic – after 18 – 24 hours - Resistant to light mechanical stresses – after 2 days - Fully resistant to chemical and mechanical stresses – after 7 days
Consumption	approx. 200 – 300 g/m <sup>2</sup> per operation

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/mm<sup>2</sup>. In the case of mastic asphalt, 75 % of the aggregates must lie free on the surface.

The moisture content of the surface to be coated must be less than 4 CM %, and the relative humidity before and during processing must not exceed 75%.

### Advice on application

Components A and B are supplied in the correct ratio for mixing. The entirety of the resin (comp. A) is added to the basic component (comp. B). 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. 5 to 10 % by weight of water may now be added. The mixed material must be poured into a clean pail and mixed again briefly.

SILIKAL® RE 27 W is applied using a non-fluffy paint roller. To avoid multiple application and overlapping, working areas must be clearly defined before coating.

On larger areas, one person should lay the material in one direction while another spreads the freshly applied material crosswise. The spreading roller should be completely saturated/wetted with material and should only be used to spread and NOT to apply the sealer. Work the individual sections "wet in wet", ensuring optimum distribution and avoiding the formation of puddles.

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. Prime with SILIKAL® RE 27 W diluted with up to 5 – 10 % by weight of water.
2. Apply the top coat of SILIKAL® RE 27 W diluted with 5 – 10 % by weight of water when the first base coat is resistant to foot traffic. To improve the ease of cleaning, we recommend that the surface is then treated with a care agent.

### Delivery form and shades

- 10 kg combination container
- 25 kg combination container

Standard shades

### Chemical resistance

When completely cured, surfaces protected with SILIKAL® RE 27 W are resistant to diluted acids and lyes, engine and heating oil.

### 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 water immediately after use.

### Labelling

Giscode: RE 0

A component: Irritant, hazardous to the environment

B component: Irritant

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

The maximum VOC content permitted in EU Directive 2004/42 (product category IIA/j type Wb) in the ready-to-use state is 140 g/l (limit 2010).

The maximum VOC content of SILIKAL® RE 27 W in the ready-to-use state is < 140 g/l.