

SILIKAL® RE 25 W is a water-emulsified, colourless, permeable to moisture, 2-component epoxy resin impregnation/sealer.

Properties

- Concentrate
- Water/moisture permeable
- Outstanding adhesion
- Low odour

Areas of application

- For light to moderate mechanical and chemical stresses
- For interiors for impregnating or sealing cement-bonded substrates, especially concrete, cement screeds, hard-aggregate floors and magnesite screeds. Absorbency is reduced, wet cleaning is possible.

Technical data

Mixing ratio	Component A (resin) = 1 part by weight Component B (hardener) = 2 parts by weight
Specific weight (mixture)	approx. 1.06 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	120 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. 0.05 – 0.15 kg/m ² 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, milling or grinding, 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 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. The mixed material must be poured into a clean pail and mixed again briefly.

SILIKAL® RE 25 W is supplied in concentrated form and must be thinned with 50 – 100 % water before use. The two components must be mixed very carefully. The water required to achieve the processing consistency can only be added afterwards.

The pot life is max. 2 hours. Note that the end of the pot life cannot be detected!

SILIKAL® RE 25 W is applied using a non-fluffy sealant roller. To avoid multiple application and overlapping, working areas must be clearly defined before coating.

On large surfaces, it is recommended that two or more people lay the material in one direction while another person 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. Water and chemical stresses must be avoided for the first 7 days. 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 first coat of SILIKAL® RE 25 W, thinned 1 : 0.5 to 1 : 1 with water.
(A second coat may be applied where necessary.)

Chemical resistance

When completely cured, surfaces protected with SILIKAL® RE 25 W are resistant to oil, grease, fuel, salt and water.

Delivery form and shades

- 12 kg combination container
- 30 kg combination container

Colourless

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 25 W in the ready-to-use state is < 140 g/l.