

SILIKAL® RE 29 W is a water-emulsified, highly-filled, pigmented, permeable to moisture, 2-component epoxy resin system for layer thickness of 2 – 5 mm.

Properties

- Short curing time
- Abrasion-resistant
- Open to water vapour diffusion
- Low odour
- Rapid resistance to foot traffic

Areas of application

- For light to moderate chemical and light to high mechanical stresses
- In interiors on concrete, cement screed and magnesite screed

Technical data

Mixing ratio	Component A (resin) = 9 parts by weight Component B (hardener) = 91 parts by weight
Specific weight (mixture)	approx. 2.00 kg/l
Minimum hardening temperature	+12 °C (room and floor temperature) Note the dew point!
Optimum processing temperature	+15 to +25 °C
Pot life at +20 °C	approx. 30 min / 30 kg container
Curing time at +20 °C	- Treatable/resistant to work/foot traffic – after 24 hours - Resistant to light mechanical stresses – after 1 day - Fully resistant to chemical and mechanical stresses – after 5 days
Consumption	Primer filling approx. 0.5 – 1.2 kg/m ² Top coat approx. 2.0 kg/m ² /mm

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 relative humidity when the material is used must not exceed 75 % if applied at +12 °C or 85 % if processed at +23 °C.

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 29 W is applied using a notched trowel or scrad spreader to a layer thickness of 2 – 5 mm. De-aerate with a spiked roll.

Because of the shorter pot life at higher temperatures of in the case of larger contiguous surfaces, i.e. where the working width is more than 3 m, the product should be applied “wet in wet” in order to achieve shorter attachment times. We recommend that you either increase the number of personnel involved or carry out the work in segments. The processing viscosity can be adjusted by adding up to 1 l of water to a 30 kg container.

To avoid slight differences in shades, make sure that the SILIKAL® RE 29 W used for the top coat comes from one batch only. 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 29 W. The material is applied as a scratch coat until all the pores have been closed up. On very absorbent substrates we recommend that the surface is moistened thoroughly first, but do not leave any standing film of water.
2. Coating: after curing, apply the top coat of SILIKAL® RE 29 W.
3. Apply a top sealer, either a coloured sealer (SILIKAL® RE 28 W) or a treatment (SILIKAL® Protect).

Chemical resistance

When completely cured, surfaces protected with SILIKAL® RE 29 W are resistant to de-icing salt solutions, engine and hydraulic oil, ordinary, diesel and jet JP4 fuel. In the case of solvents, premium fuel, brake fluid, diluted acids and lyes, some discolouration, matting and light to strong softening or bubble formation may occur, depending on the reaction time (1 to 3 days).

Delivery form and shades

- 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

6 months 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 1

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