

SILIKAL® RE 77 resin is a solvent-free, highly viscous glossy 2-component EP-based top coat that offers better resistance to solvents. It is used as a top coat solely on floors into which SILIKAL® Coloured Flakes or coloured quartz have been sprinkled in liberally.

Application

In areas exposed to greater stresses from solvent-type chemicals such as alcohols (pharmaceutical industry), paint thinners (paint industry) or engine/brake cleaners (car workshops), SILIKAL® RE 77 offers enhanced resistance. SILIKAL® RE 77 resin is only to be applied if the surface of the coat underneath has been liberally sprinkled with SILIKAL® Coloured Flakes or SILIKAL® Coloured Quartz. Smooth coatings are less suitable as a substrate for SILIKAL® RE 77.

Advice on application

SILIKAL® RE 77 resin is supplied in two separate packing units (component A = 20 kg and component B = 10 kg). Before application, both components are mixed together intensively for about 2 – 3 minutes using an agitator. If smaller quantities are required, the components are to be mixed in the ratio A = 100 and B = 50.

The surface must be free of sprinkled material (use a vacuum cleaner) before the top coat is applied. A rubber blade can be used for preliminary spreading. Thus wetted, the surface is evenly rolled crosswise by means of a fine Perlon roller until the desired coat thickness of 400 – 700 g/m² has been reached. A second coat of a further approx. 300 – 400 g/m² is possible if, for instance, a smooth surface is desired. Nevertheless, the second coat must be applied within 12 hours of the earliest accessibility in order to ensure good inter-layer adhesion.

The total thickness of the SILIKAL® RE 77 sealer coat may not exceed 1 mm.

For more reliable curing, a minimum substrate temperature of +14 °C is required. The pot life is about 30 minutes at +20 °C. Full chemical resistance and resistance against water is achieved after at least 7 days. For the exact quantities, please refer to the table “**Reaction times**”.

Under no circumstances may solvents be added to dilute or adjust the viscosity. Suitable solvents such as SILIKAL® Cleaner must be used to clean the tools and equipment.

SILIKAL® RE 77 resin has been adequately tested by Silikal and released for use. However, this does not release the user from his duty of care, in particular to test the product and its application for suitability, particularly in combination with other products or systems.

Guideline recipe and batch quantities

Item	Component	Guideline recipe (% by weight)	Comments	Batch for 30 litre bucket	
1	SILIKAL® RE 77 A resin	66.7 %	1 packing unit Component A	20 kg	approx. 17.4 litres
2	SILIKAL® RE 77 B resin	33.3 %	1 packing unit Component B	10 kg	approx. 9.8 litres
	Total:	100 %	Average consumption: 400 – 700 g/m²	30 kg	approx. 27.2 litres

Characteristics of RE 77 in summary

Mixing ratio	Component A (resin) = 100 parts by weight Component B (hardener) = 50 parts by weight
Temperature range	min. +14 °C, max. +35 °C
Maximum humidity	75 % air humidity
Consumption	approx. 400 – 700 g/m ² depending on surface roughness
Packaging	20 kg hobbock (resin component) 10 kg bucket (hardener component)

Reaction times (approx.)

	+15 °C	+20 °C	+30 °C	
Pot life	45 minutes	30 minutes	20 minutes	
Hardening time				
	(walking)	48 hours	24 hours	12 hours
	(vehicles)	4 days	3 days	2 days
(chemical)	7 days	7 days	7 days	

CE	
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10 ¹⁾	
RE 77 - 001	
EN 13813 SR-AR1-B1,5-IR4	
Synthetic resins for internal uses	
(Application in accordance with the newest technical information)	
Reaction to fire:	E _n
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD ²⁾
Wear resistance (Abrasion Resistance):	AR 1 ³⁾
Bond strength:	B 1,5
Impact resistance:	IR 4
Sound insulation:	NPD ²⁾
Sound absorption:	NPD ²⁾
Thermal resistance:	NPD ²⁾
Chemical resistance:	NPD ²⁾

CE-labelling

¹⁾ Last two digits of the year in which the ce marking was affixed.

²⁾ NPD = No performance determined.

³⁾ Refers to a smooth surface without broadcasting.



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Silikal product information

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Silikal GmbH

✉ Ostring 23
☎ +49 (0) 61 82 / 92 35-0
🌐 www.silikal.de

D-63533 Mainhausen
☎ +49 (0) 61 82 / 92 35-40
@ mail@silikal.de