SILIKAL® RV 310 resin

High flexible membrane resin

Expect more from your floor.

SILIKAL® RV 310 resin is a modified methacrylate resin of high flexibility which is – up to a certain extent – suitable for membrane layers and liquid foils under inelastic coatings for interior and exterior surfaces, as well as water proofing indoors under tiles and screed for „Test Categories – Field of Applications C“.

SILIKAL® RV 310 resin is characterised by a very high elasticity, which ensures a lasting extensibility so that movements in the underground can be better absorbed. Due to the surface tackiness the coating surface might tend to become contaminated with dust or dirt. Since a membrane coat made from Silikal® RV 310 resin is generally covered by tiles, screed or a further coat this fact can be ignored.

In order to work out an individual solution for your job please contact our Technical Department for detailed information.

Application

Coating material made from SILIKAL® RV 310 resin need a suitable priming, e.g. SILIKAL® R 51 resin before applying on concrete.

The resin shall be formulated by fine filler and can be stored ready for use in small units.

After preparing the concrete surface according to the technical rules (ball blasting, grinding, cleaning, etc.) apply the primer SILIKAL® R 51 resin first. After curing apply the coating mixture according to the formulation given in table 1 in a layer of 1.5 mm thickness by using comb trowel or smoothing trowel. It is important to avoid blisters during application. Also consider to apply the material up the walls, piles or fixed machinery at least 5-10 cm to avoid water leakage.

German Approval as Waterproofing

Coating material made from SILIKAL® RV 310 resin is approved and authorized as water proofing under tiles and concrete as follows:
(2-layer with following sprinkling of quartzsand, adhesives for floor tiles upon request):

Application Area C: Walls- and floor surfaces in commercial establishments, also in connection with light chemicals (i.e. car wash, kitchens, canteens, food processing) except for those chemicals which require special and additional approvals (regulations concerning the ground water protection act § 19 WHG).

For the compliance with the certified regulations for application please contact us directly.

Guideline recipe and batch quantities

Item	Component	Guideline recipe (% by weight)	Comments	Batch for 10 litre bucket	
1	SILIKAL® RV 310 resin	74 %		7.4 kg	7.4 litres
2	SILIKAL® Filler QM	20 %		2 kg	approx. 2.1 litres
3	SILIKAL® Pigment Powder	5 %		500 g	
4	SILIKAL® Anti-flow Additive TA1	1 %		100 g	
	Total:	**100 %**	**Average consumption: 1.5 kg/m² per mm thickness**	**10 kg**	**approx. 7.7 litres**
5	SILIKAL® Hardening Powder	1 – 6 % related to item 1	See “Hardener dosages” table for quantities	75 – 450 g	

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Characteristics as delivered

Property	Measuring method	Approx. value
Viscosity at +20 °C	DIN 53 015	300 – 500 mPa · s
Flow time at +20 °C, 6 mm cup	ISO 2431	50 – 70 sec.
Density D_4^{20}	DIN 51 757	0.98 g/cm³
Flash point	DIN 51 755	+10 °C
Pot life at +20 °C (100 g, 2 % pbw. hardening powder)	12 – 15 min.	
Application temperature	+5 °C to +30 °C	
Ultimate elongation when hardened	250 % at +23 °C	

Hardener dosages

Temperature	Hardening powder % pbw. *	Pot life approx. min.	Hardening time approx. min.
+5 °C	6.0	20	60
+10 °C	4.0	15	40
+15 °C	3.0	15	40
+20 °C	2.0	15	40
+25 °C	1.5	10	30
+30 °C	1.0	8	25

* The quantity of hardening powder is always related to the quantity of resin.
For further information, please refer to the separate product information sheet **"SILIKAL® Hardening Powder"**.

Other applicable documents	Data sheet	Page
SILIKAL® Hardening Powder	SILIKAL® Hardening Powder	86 – 87
General processing information	AVH	89 – 92
The substrate	DUG	93 – 95
Fillers and pigments	FUP	96 – 99
Chemical resistance	CBK	100 – 101
Information on safety and protection	SUS	102 – 103
Storage and transport	LUT	104 – 106
General cleaning advice	ARH	107 – 108

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