

SILIKAL® R 68

Reactive, flexibilised, viscoplastic reactive resin for self-levelling coatings

Properties

- Medium viscosity
- Good self-levelling properties
- Good crack-bridging
- Good flexibility at low temperatures
- Permanently elastic
- Safe curing at higher substrate temperatures

Area of application

- Main coat resin for flexible, self-levelling coatings outdoors and in cold-storage rooms
- Depending on mechanical, thermal or chemical load, the coating thickness can be varied from 2 to 6 mm
- As flexible scratch slurry to level out surface unevenness after priming

Hardener dosages

Temperature	SILIKAL® BPO % by weight *	Pot life approx. min.	Hardening time approx. min.
+5 °C	6.0	20	60
+10 °C	4.0	15	50
+20 °C	3.0	15	40
+30 °C	2.0	10	25
+35 °C	1.5	8	20

* The amount of SILIKAL® BPO is always calculated with reference to the amount of resin.

Advice on application

- First the fillers and pigments need to be stirred into the resin until a homogeneous state is achieved (no lumps) and only then SILIKAL® BPO should be added and mixed until it has dissolved completely (approx. 1 minute). The mixture should be used immediately.
- For broadcasted toppings, e.g. with SILIKAL® Filler FM, always broadcast surplus covering, until there are no glossy parts remaining. Once the main coat has cured, sweep or vacuum away any loose grains of sand.
- SILIKAL® R 68 is subject to a prolonged post-reaction of roughly two hours. If SILIKAL® R 68 is used as a self-levelling coating/scratch slurry without broadcasting its entire surface, the coating will have a certain residual stickiness after the curing time. This does not, however, have any negative effect on following coatings (main coat/top coat).

Guideline recipe, scratch slurry

No.	Component	Guideline recipe (% by weight)	Comment	Batch for 30 litre bucket
1	SILIKAL® R 68	35 %		13.5 kg
2	SILIKAL® Filler SL	65 %	1 sack	25 kg
	Total:	100 %	Average consumption: 1.6 kg/m² per mm thickness	38.5 kg
3	SILIKAL® BPO	1.5 – 6 % with ref. to no. 1		See "Hardener dosages" table for quantities

Guideline recipe, self-levelling main coat 2 – 3 mm

No.	Component	Guideline recipe (% by weight)	Comment	Batch for 30 litre bucket
1	SILIKAL® R 68	35 %		13.5 kg
2	SILIKAL® Filler SL	65 %	1 sack	25 kg
	Total:	100 %	Average consumption: 1.6 kg/m² per mm thickness	38.5 kg
3	SILIKAL® BPO	1.5 – 6 % with ref. to no. 1		See "Hardener dosages" table for quantities

Silikal Product Information

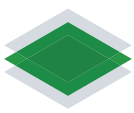
Data sheet SILIKAL® R 68
Page 1 of 2

Issue MMA 7.02A – February 2023



Silikal GmbH

Ostring 23 · 63533 Mainhausen · Germany
Phone: +49 (0) 61 82 / 92 35-0
mail@silikal.de · www.silikal.de



SILIKAL® R 68

Reactive, flexibilised, viscoplastic reactive resin for self-levelling coatings

Guideline recipe, self-levelling main coat 4 – 6 mm

No.	Component	Guideline recipe (% by weight)	Comment	Batch for 30 litre bucket
1	SILIKAL® R 68	30 %		10.7 kg
2	SILIKAL® Filler SL	70 %	1 sack	25 kg
	Total:	100 %	Average consumption: 1.7 kg/m² per mm thickness	35.7 kg
3	SILIKAL® BPO	1.5 – 6 % with ref. to no. 1		See “Hardener dosages” table for quantities

Characteristics as delivered

Property	Approx. value
Viscosity, +20 °C	300 mPa · s
Density, +20 °C	0.97 g/cm ³
Application temperature	+5 °C to +35 °C

CE marking

CE	
09	
SILIKAL GmbH Ostring 23 · 63533 Mainhausen www.silikal.com	
R68-001	
EN 13813:2002 Synthetic resin screed for application in buildings	
Reaction to fire	E _n
Release of corrosive substances	SR
Wear resistance	≤ AR1
Bond strength	≥ 1.5
Impact resistance	≥ IR 4



Other applicable documents

SILIKAL® BPO	Data sheet BPO
SILIKAL® Filler SL	Data sheet FSL
SILIKAL® Filler FM	Data sheet FFM
General notes	Technical documentation MMA
Safety data sheets	All used Silikal products

The information in this data sheet replaces all previous information about the product and its application. The application instructions as well as the technical data of the product are only guidelines. The buyer is responsible for the application and claims of third parties.

Silikal Product Information

Data sheet SILIKAL® R 68
Page 2 of 2
Issue MMA 7.02A – February 2023



Silikal GmbH

Ostring 23 · 63533 Mainhausen · Germany
Phone: +49 (0) 61 82 / 92 35-0
mail@silikal.de · www.silikal.de