



SILIKAL® R 51

Reactive primer for cementitious substrates

Properties

- Low viscosity
- High penetration capacity

Area of application

- Primer resin for concrete and cement screed
- Note: If a shorter pot life / hardening time is desired, the special product SILIKAL® RS 551 can be used (data sheet on request)
- Note: If priming needs to be performed at temperatures from -11 °C to -25 °C, the special product SILIKAL® R 51 (-25 °C) can be used (data sheet on request)

Hardener dosages

Temperature	SILIKAL® BPO % by weight *	Pot life approx. min.	Hardening time approx. min.
-10 °C	7.0	22	60
0 °C	5.0	15	40
+20 °C	3.0	12	30
+30 °C	2.0	10	25

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

Advice on application

- SILIKAL® BPO must be stirred in until it is fully dissolved (approx. 1 minute or approx. 2 minutes for temperatures below +5 °C) and the mixture must be used immediately.
- The mixture must be applied such that it forms a film. If the mixture penetrates in the substrate, it must be reworked wet in wet.
- Puddling must be avoided during application.
- Curing and adhesion tests must generally be performed.
- Always use primers as clear resin – they should never be filled or pigmented.

Guideline recipe

No.	Component	Guideline recipe (% by weight)	Comment	Batch for 10 litre bucket
1	SILIKAL® R 51	100 %		10 kg
	Total:	100 %	Average consumption: 400 g/m²	10 kg
2	SILIKAL® BPO	2 – 7 % with ref. to no. 1		See "Hardener dosages" table for quantities



Characteristics as delivered

Property	Approx. value
Viscosity, +20 °C	70 mPa · s
Density, +20 °C	0.98 g/cm ³
Application temperature	-10 °C to +30 °C

CE marking

CE	
09	
SILIKAL GmbH Ostring 23 · 63533 Mainhausen www.silikal.com	
R51-001	
EN 13813:2002	
Synthetic resin screed for application in buildings	
Reaction to fire	E ₊
Release of corrosive substances	SR
Wear resistance	≤ AR1
Bond strength	≥ 1,5
Impact resistance	≥ IR 4

CE	
09	
SILIKAL GmbH Ostring 23 · 63533 Mainhausen www.silikal.com	
System-B-001	
EN 1504-2:2004 1119	
ZA.1d(1.3), ZA.1f(5.1) and ZA.1g(6.1)	
Synthetic resin screed for application in buildings	
Detailed declaration of performance: www.silikal.com	



Other applicable documents

SILIKAL® BPO	Data sheet BPO
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.

