

### Properties

- Primer with very good adhesion on absorbent (concrete, cement screed) and non-absorbent substrates (tiles and metals)
- Rapid curing even at low temperatures
- Resin for building up a thin coating

### Areas of application

SILIKAL® RU 380 resin is a medium-viscosity, solvent-free 2-component methacrylate resin system with very good adhesion on metals such as untreated steel, stainless steel (V2A), aluminium and galvanized sheet metal and other non-absorbent substrates. Curing and adhesion tests will generally have to be carried out.

### Advice on application

Once the substrate has been inspected, it normally needs to be pre-treated. The surfaces must be dry, firm and load-bearing and also free of dust, oil and grease and other substances which could act as a separating layer. Steel substrates must be derusted and prepared to SA 2½ in accordance with DIN 55929. Non-ferrous metals must be cleaned and prepared by sanding down or blasting.

The necessary quantity of hardener must be adjusted in light of the temperature of the building. For the exact quantities, please refer to the "Hardener dosages" table.

You must not dose less than the given quantity of hardening powder, as this will jeopardize the curing process.

You must also avoid overdosing the hardening powder, as this can likewise lead to serious curing problems.

The material must be applied as soon as the hardening powder has finished dissolving in the resin components.

The mixing time is about 2 minutes.

Before any further finishing with subsequent MMA systems, the SILIKAL® RU 380 primer resin must be completely cured.

Processing is performed using a short-pile solvent-resistant paint roller. If applying SILIKAL® RU 380 resin as a thin coating, we recommend using short-pile plush mohair rollers.

#### Special advice:

SILIKAL® RU 380 resin reaches its final physical properties in terms of compressive strength, final adhesion etc. after a post-reaction period which may last several hours.

## 1. Priming

(Use in systems A – D)

Item	Component	Guideline recipe (% by weight)	Comments	Batch for 10 litre bucket	
				10 kg	10 litres
1	SILIKAL® RU 380 resin	100 %		10 kg	10 litres
	<b>Total:</b>	<b>100 %</b>	<b>Average consumption: approx. 300 – 400 g/m²</b>	<b>10 kg</b>	<b>10 litres</b>
2	SILIKAL® Hardening Powder	1.0 – 3 % related to item 1	See "Hardener dosages" table for quantities	100 – 300 g	

## 2. Thin coating

(Use in system A)

Item	Component	Guideline recipe (% by weight)	Comments	Batch for 10 litre bucket	
				6.5 kg	6.5 Ltr.
1	SILIKAL® RU 380 resin	65.0 %		6.5 kg	6.5 Ltr.
2	SILIKAL® Filler QM	30.0 %		3.0 kg	approx. 0.8 Ltr.
3	SILIKAL® Pigment	5.0 %		0.5 kg	
	<b>Total:</b>	<b>100 %</b>	<b>Average consumption: approx. 500 – 600 g/m²</b>	<b>approx. 9.8 kg</b>	<b>approx. 7.3 Ltr.</b>
4	SILIKAL® Hardening Powder	1.0 – 3 % related to item 1	See "Hardener dosages" table for quantities	65 – 195 g	

The thin coating can be sprinkled with coloured flakes, natural sand or coloured sand while still fresh.

After the SILIKAL® RU 380 resin has cured, a suitable sealant can be applied.

If using as a one-colour top coat, we recommend sealing with transparent SILIKAL® R 82 resin to make the thin coating easier to clean and improve its mechanical stability (scratch resistance).

# SILIKAL® RU 380 resin

Reactive medium-viscosity primer for absorbent and non-absorbent substrates/thin coatings



Expect more from your floor.

## Characteristics of RU 380 as delivered

Property	Measuring method	Approx. value
Viscosity		180 – 250 mPa · s
Density D <sub>4</sub> <sup>20</sup>	EN ISO 2811-2	0.99 g/cm <sup>3</sup>
Flash point	DIN 51 755	+10 °C
Pot life at +20 °C (100 g, 1.5 % pbw. hardening powder)		12 – 14 min.
Application temperature		0 °C to +30 °C

## Hardener dosages

Temperature	Hardening powder % pbw. *	Pot life approx. min.	Hardening time approx. min.
+0 °C	3.0	32 – 36	50 – 60
+10 °C	2.0	18 – 22	45 – 55
+20 °C	1.5	12 – 14	35 – 45
+30 °C	1.0	10 – 12	30 – 40

\* 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".

## Equipment cleaning

The equipment can be cleaned with ethyl acetate or SILIKAL® MMA cleaner immediately after use.

## Safety advice

SILIKAL® RU 380 resin is highly flammable as delivered. Please refer to the current safety data sheet for information on how to handle the material safely.

## CE-labelling

DIN EN 13 813 "Screed material and floor screeds - Screed material - Properties and requirements" (Jan. 2003) specifies requirements for screed material that is used for floor constructions in interiors.

Plastic coatings and sealers are also covered by this standard. Products that conform to the above standard are to be identified with the CE mark.

<sup>1</sup> Last two digits of the year in which the ce marking was affixed.

<sup>2</sup> NPD = No performance determined.

<sup>3</sup> Refers to a smooth surface without broadcasting.

CE	
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RU 380 - 001	
DIN EN 13813:2003-01	
Synthetic resin screed/coating for use in buildings. EN 13813 SR-AR1-B1.5-IR4 (structures according to Technical Information).	
Reaction to fire:	E <sub>fl</sub>
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD <sup>2)</sup>
Wear resistance (Abrasion Resistance):	AR 1 <sup>3)</sup>
Bond strength:	B 1.5
Impact resistance:	IR 4
Sound insulation:	NPD <sup>2)</sup>
Sound absorption:	NPD <sup>2)</sup>
Thermal resistance:	NPD <sup>2)</sup>
Chemical resistance:	NPD <sup>2)</sup>

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### Silikal product information

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