

Product description

SILIKAL® RU 320 resin pigmented, is a polyurethane modified, self levelling methacrylate resin system that is suitable for creating watertight membranes on a wide variety of substrates. The formulation SILIKAL® RU 320 resin thix, can also be used for coating on rising or very steeply inclined surfaces.

Properties

- Highly flexible
- Good crack bridging
- Very easy to apply
- Application even at low temperatures
- Very good intercoat adhesion
- Quickly treatable

Application

SILIKAL® RU 320 resin pigmented/thix, is a urethane modified medium viscosity or thixotropic membrane resin based on an acrylic resin. SILIKAL® RU 320 resin pigmented/thix, is supplied ready-filled and pigmented. The addition of the SILIKAL® hardening powder triggers curing.

Properly cured SILIKAL® RU 320 resin pigmented/thix, creates a highly flexible, crack-bridging membrane layer that retains its flexibility even at very low temperatures.

SILIKAL® RU 320 resin pigmented/thix, can be applied in the temperature range from 0 °C to +30 °C. Addition of the accelerator (SILIKAL® ZA additive) also enables application in the range from 0 °C to -10 °C.

Preparation of the substrate.

The surface to be coated must be solid, dry, free of dust, grease and oil, as well as firm. Cementitious surfaces may be prepared e.g. by shot-peening. Before applying the SILIKAL® RU 320 resin pigmented/thix, always prime the substrate appropriately, possibly including scattering loosely with silica sand of grain size 0.7 – 1.2 mm. Observe the relevant product data sheets on the processing of the primer.

Before application, stir the container in which the product is supplied thoroughly to distribute the paraffin evenly and ensure that the material hardens reliably. The amount of Silikal hardening powder to be added depends on the temperature. Please refer to the table “**Hardener dosages**” for the relevant values.

At temperatures below 0 °C, also incorporate SILIKAL® ZA additive. Observe the technical data sheet “**SILIKAL® ZA additive**”.

Guideline recipe and standard batch

Item	Component	Guideline recipe (% by weight)	Comments	Batch size	
				10 kg	
1	SILIKAL® RU 320 resin pigmented/thix	100 %		10 kg	
	Total:	100 %	Average consumption: 1.3 kg/m² per mm thickness	10 kg	
2	SILIKAL® hardening powder	1 – 6 %, relative to item 1	See “Hardener dosages” table for quantities	100 – 600 g	

Characteristics of RU 320 pigmented/thix, as delivered

Property	Measuring method	Approx. value
Viscosity at +20 °C (RU 320 pigmented)	DIN 53 015	2,000 – 3,000 mPa · s
Viscosity at +20 °C (RU 320 thix)		Pasty
Density D ₄ ²⁰ (RU 320 pigmented)	DIN 51 757	1.13 g/cm ³
Flash point	DIN 51 755	+10 °C
Pot life at +20 °C (100 g, 2 % w/w hardening powder)		Approx. 15 min.
Processing temperature (substrate temperature)		0 °C to +30 °C -10 °C to 0 °C with SILIKAL® ZA additive


Characteristics of RU 320 pigmented/thix, in the hardened state

Property	Measuring method	Approx. value
Adhesive pull strength	EN ISO 527	>2 N/mm ²
Tensile stress at break	EN ISO 527	3.3 N/mm ²
Crack bridging		1.55 mm
Elongation at break	EN ISO 527	157 %

Hardener dosages

Temperature	Hardening powder % w/w *	Pot life approx. min	Hardening time approx. min
0 °C	6.0	20	80
+10 °C	4.0	15	60
+20 °C	2.0	15	60
+30 °C	1.0	8	40

* The quantity of hardening powder is always relative to the quantity of resin.

 For further information, please refer to the separate product information sheet **SILIKAL® hardening powder**".

Safety advice

Wear suitable protective clothing (gloves and goggles) when applying. Avoid contact with the eyes and skin.
For further information, please refer to the safety data sheet.

Delivery form

- 10 kg bucket
- 20 kg bucket

Shelf life

6 months if stored in the unopened original container in a cool (< 25 °C), dry and frost-free location.

The optimal storage temperature is +15 °C to +20 °C.

Do not expose to direct sunlight!

Labelling

Giscode: RMA 10

Resin: Xi irritant

Disposal

Fully hardened material can be disposed of as domestic refuse.

Recycle completely empty containers.

Dispose of liquid material as waste paint that contains solvents or other dangerous substances (EWC 080111).



Other applicable documents

SILIKAL® ZA additive
SILIKAL® hardening powder
General advice on application
The substrate
Fillers and pigments
Chemical resistance
Information on safety and protection
Storage and transport
General cleaning advice

Data sheet

SILIKAL® ZA additive
SILIKAL® hardening powder
AVH
DUG
FUP
CBK
SUS
LUT
ARH

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Silikal product information

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