

Product description

SILIKAL® RU 321 pigmented is a formulated, MMA based resin which is suitable for waterproofing purposes in exterior areas.

Properties

- Highly flexible
- Good crack bridging properties
- Easy to apply
- Extended application temperature
- Good interlayer adhesion
- Fast curing

Application

SILIKAL® RU 321 pigmented is a solvent free, PU modified acrylic resin delivered as a ready-to-use product. It is supplied pigmented and pre-filled. The curing process is started by adding an appropriate amount of SILIKAL® Hardening Powder. The cured SILIKAL® RU 321 pigmented represents a highly flexible membrane layer which keeps its flexibility down to very low temperatures. SILIKAL® RU 321 pigmented can be applied within the temperature range of 0 °C up to +35 °C. The application is done by using a solvent resistant paint roller or by trowel.

The layer thickness of a single layer is about 1 mm. We recommend an application as a double layer system in order to avoid imperfections.

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 321 pigmented on a cementitious substrate, always prime the substrate appropriately, possibly including scattering loosely with silica sand of grain size 0.7 – 1.2 mm. Please refer to the relevant product data sheets on the processing of the primer.

Before application, thoroughly stir the container in which the product is supplied to distribute the paraffin evenly and ensure that the material hardens surely. The amount of SILIKAL® Hardening Powder to be added depends on 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 batch quantities

Item	Component	Guideline recipe (% by weight)	Comments	Batch	
1	SILIKAL® RU 321 pigmented	100 %		10 kg	
	Total:	100 %	Average consumption: 1.6 kg/m² per mm thickness	10 kg	
2	SILIKAL® Hardening Powder	1 – 6 %, related to item 1	See “Hardener dosages” table for quantities	100 – 600 g	

Characteristics of RU 321 pigmented as delivered

Property	Measuring method	Approx. value
Viscosity at +20 °C	DIN 53 015	4.000 – 5.000 mPa · s
Density D ₄ ²⁰	DIN 51 757	1.65 g/cm ³
Flash point	DIN 51 755	+10 °C
Pot life at +20 °C (100 g, 2 pbw hardening powder)		Approx. 15 min.
Application temperature (substrate)		0 °C to +35 °C -10 °C to 0 °C with SILIKAL® ZA additive


Characteristics of RU 321 pigmented in the hardened state

Property	Measuring method	Approx. value
Pull-off strength (concrete, primed)	EN ISO 527	>1.5 N/mm ²
Tensile strength	EN ISO 527	2 N/mm ²
Elongation at break	EN ISO 527	200 %

Hardener dosages

Temperature	Hardening powder % pbw. *	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
+35 °C	1.0	7	35

* 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".

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

Six 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

CLP: GHS 02, GHS 07

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 processing information
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

Silikal product information

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