

PRODUCT DATA SHEET

SikaInject® RBA 380

Highly reactive, thixotropic polyurea silicate anchoring resin for rock bolting

DESCRIPTION

SikaInject® RBA 380 is a fast reacting, two-component, instantly-thickening, solvent-free polyurea silicate anchoring resin specifically designed for rock bolting. Its thixotropic feature facilitates overhead applications without additional sealing.

USES

- Resin-into-bolt rock bolting at all angles
- Bolt-into-resin rock bolting at all angles
- For the use with steel and glass fiber bolts

CHARACTERISTICS / ADVANTAGES

- Thixotropic
- Fast curing and rapid strength development
- Long distance pumping capability
- Easy mixing even at low temperatures (> 40 °F (5 °C))
- High structural strength
- Excellent adhesion to damp and low friction substrates
- Does not absorb water or expand when comes in contact with water

PRODUCT INFORMATION

Chemical Base	2-component Polyurea silicate resin	
Packaging	Part A	35 kg (25 ltr)
	Part B	28 kg (25 ltr)
Colour	Part A	Colourless
	Part B	Dark Brown
Shelf Life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.	
Storage Conditions	Dry storage at temperatures from +5 °C up to +35 °C. Protect from direct sunlight and humidity.	

Density	Part A	~1.39 g/cm ³
	Part B	~1.18 g/cm ³
Viscosity	Part A	490 mPa.s
	Part B	150 mPa.s

TECHNICAL INFORMATION

Compressive Strength	~35 Mpa
Pull-Out Resistance	≥ 320 kN (600mm)

APPLICATION INFORMATION

Mixing Ratio	1:1 parts by volume
Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Gel time	~ 3min ± 20s

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

EQUIPMENT

For short breaks in the injection process, pump SikalInject® RBA 380 resin Part A through the nozzle including the static in-line mixer.

After the injection process, pump an appropriate cleaning and maintenance agent (such as Sika Roc MP 230 CLN product) or oil that does not contain any water, through the pump and injection hoses until SikalInject® RBA 380 resin is completely flushed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

APPLICATION

The Part A and Part B of SikalInject® RBA 380 resin are delivered ready to use. They should be injected in the ratio of 1:1 by volume, using a two-component injection pump equipped with a static in-line mixer nozzle. The curing time is dependent on the temperature of the product and of the ground.

Store both components at a temperature above 40 °F (5 °C) prior to application. To achieve a favorable mixing result during injection, the addition of a static in-line mixer in conjunction with the mixing head is strongly recommended. The length of the static mixer should be approximately 300 mm.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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SikaInject® RBA 380
March 2025, Version 02.02
020707000000002043

SikaInjectRBA380-en-ZA-(03-2025)-2-2.pdf