

PRODUCT DATA SHEET

SikaInject®-630

Solvent-Free, Low-Viscosity, Colloidal Silica Injection Grout

DESCRIPTION

SikaInject®-630 is a one-component injection system, based on a nanometric colloidal silica suspension of primary, discrete particles. It is a non-foaming product and contains neither solvents nor toxic components.

USES

SikaInject®-630 may only be used by experienced professionals.

- Rock injection
- Consolidation of sandy and silty strata
- Pre-excavation grouting for underground applications

- Also suitable for post-injection
- Ground improvement
- Water ingress reduction
- Slope stabilization

FEATURES

- Very low viscosity
- Non-aggressive = improves working safety
- No environmental impact
- Good bonding to wet surfaces
- Controlled, adjustable gel-time (accelerator, CAT)
- Simple mixing and pumping equipment (as cement grouting)

PRODUCT INFORMATION

Packaging	Part A: 210 L / 1000 L Catalyst (CAT): 210 L / 1000 L		
Shelf life	18 months from date of production		
Storage conditions	Store in unopened, tightly closed original containers. Keep them dry and in a temperature range of +5 to +35 °C. Protect from frost and sunlight.		
Colour	Part A: whitish, clear CAT: Clear Mix: whitish, clear		
Density	Part A:	~1.3 kg/l (20°C)	(AP-005)
	CAT:	~1.07 kg/l (20°C)	
	Mixed:	~1.25 kg/l (20°C)	
Viscosity	Part A:	~10 mPa.s (20° C)	(AP-014)
	CAT:	~1 mPa.s (20° C)	
	Mixed:	~5 mPa.s (20° C)	
pH-Value	Part A:	~9.5-9.8 (20°C)	(AP-009)
	CAT:	~7 (20°C)	
	Mixed:	~9 (20°C)	

APPLICATION INFORMATION

Gel time

SikalInject®-630 is produced in three different facilities worldwide:

- SikalInject®-630 = Sweden
- SikalInject®-630 US = USA
- SikalInject®-630 AP = Taiwan

It is important to establish which product you have been supplied to choose the correct CAT dosage for a given gel time. The gel time may be adjusted by varying the quantity of CAT added to Part A. It can be adjusted between 10 minutes and several hours as indicated in Gel-Time Chart. For long gel time, the temperature will have a big influence.

Site tests are recommended.

SikalInject®-630

Gel-Time (min) at 8°C

SikalInject®-630	~700	~100	~30	~12	~6
SikalInject®-630 US	~1200	~200	~60	~23	~12
SikalInject®-630 AP	~65	~5	~1	0	
Volume % of CAT	10	15	20	25	30

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

Add CAT to Part A at the required ratio. Stir Part A continuously during the addition of CAT, and fully pre-mix prior to pumping. The mixture of SikalInject®-630 and the CAT is workable between +5°C and +40°C. Pump with a 1-component pump, such as a cement grout injection pump, through an injection packer system into the strata. For slow migration into sand and gravels, a worm pump may also be considered. SikalInject®-630 and CAT can also be injected using a 2-component pump. In this case, a static in-line mixer is necessary to achieve a good mixing of the two components. To achieve controlled, targeted injection into sands and gravels, use double packers within manchette-injection-tubes (often "TAMs" or "SPPs") with port centers dependent on the fineness of soils, and degree of stabilization required.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 – SGS
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- Sika Oman LLC
- Sika MB Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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