

PRODUCT DATA SHEET

SikaInject®-255

(formerly Mroc 355)

Highly Reactive 2-C PU Injection Foam

DESCRIPTION

SikaInject®-255 is a 2-component, solvent-free polyurethane injection resin specifically designed for rapid water stopping and ground consolidation

USES

SikaInject®-255 may only be used by experienced professionals.

- Permanent stopping of high-volume water ingress in underground structures
- Ground consolidation

CHARACTERISTICS / ADVANTAGES

- Modular system = adjustable to site requirements
- Different additives for foam-, speed- and density-adjustment available
- Rigid foam formation upon water contact
- Solid resin formation without water contact
- Material never remains uncured = safety advantage
- Very fast reaction completion upon water contact
- Provides structural strength and rigidity
- Suitable for cold water

PRODUCT INFORMATION

Packaging	Part A: 25 kg cans / 205 kg drums / IBC Part B: 30 kg cans / 250 kg drums / IBC
Colour	Part A: yellowish, liquid Part B: dark brown, liquid ACC10: yellowish, liquid ACC15: yellowish, liquid ACC20: yellowish, liquid
Shelf Life	24 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +5 °C and +35 °C.
Density	Part A: ~1.00 kg/l (20°C) Part B: ~1.23 kg/l (20°C) ACC10: ~1.00 kg/L (20°C) ACC15: ~1.00 kg/L (20°C) ACC20: ~0.90 kg/L (20°C)

Viscosity

Part A: ~320 mPa.s (20°C)
Part B: ~240 mPa.s (20°C)
ACC10: ~500 mPa.s (20°C)
ACC15: ~1000 mPa.s (20°C)
ACC20: ~20 mPa.s (20°C)

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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

Part A and B are delivered ready to use. They are injected in the proportion of 1:1 by volume using a two-component injection pump equipped with a static in-line mixer nozzle. Note: foaming reaction time depends on temperature of product and temperature of ground-water.

APPLICATION

SikalInject®-255 can be modified and adapted to site requirements by the use of three different accelerators/additives:

SikalInject-255 ACC10 (water-stopping):

- ACC10: High foaming factor (~20-25x expansion) and rapid reaction
- Add 0.5-2% dosage (by weight of PART A) to PART A

SikalInject-255 ACC15 (ground consolidation):

- ACC15: Dense foam (~7-9x expansion) with high mechanical strength
- Add 0.5-2% dosage (by weight of PART A) to PART A.

SikalInject-255 ACC20 (stopping of big volumes, heavily flowing water in soil or rock):

- ACC20: Combined functions of ACC10 and ACC15; strong foam with low expansion
- Add 0.1-1% dosage (by weight of PART A) to PART A.

If a particularly rapid reaction is required, one can additionally premix water to PART A, (2% by volume of PART A). After the addition of accelerator (and water if added) to Part A, stir homogeneously to ensure even dispersion throughout the resin prior to injection works. To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is strongly advised. The length of the static mixer should be approximately 32 cm. Note: SikalInject®-255 is not suitable for large volume void filling

CLEANING OF TOOLS

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. After the injection process pump an appropriate cleaning and maintenance agent (e.g. SikalInject®-CL2, SikalInject®-Cleaner 23) or water-free low viscosity hydraulic oil, through the pump and injection hoses until SikalInject®-255 is completely flushed out. Store the pump and hoses filled with oil and seal all openings.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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SikaInject®-255

October 2024, Version 01.02
020707010020000075

SikaInject-255-en-HK-(10-2024)-1-2.pdf