

PRODUCT DATA SHEET

SikaInject®-668

Highly Reactive, Fire Resistant 2-C Polyurea Silicate Injection Resin

DESCRIPTION

SikaInject®-668 is a fast reacting 2-component, solvent-free polyurea silicate injection resin specifically designed for rapid ground consolidation

USES

SikaInject®-668 may only be used by experienced professionals.

- Consolidation of fractured rock in underground structures
- Consolidation of coal in development roadways and longwalls
- Sealing against gas and water
- Overblast reduction
- Repair of concrete cracks
- TBM Heading Injections

CHARACTERISTICS / ADVANTAGES

- Good adhesion to concrete / ~5,0 MPa after 0.5 h
- Easy mix, even at low temperatures ~ 5°C
- High compressive strength
- Penetrates cracks down to ≥ 0.14 mm
- High structural strength combined with flexibility
- Good adhesion to damp and low-friction substrates
- Neither expands its volume with water nor absorbs water

PRODUCT INFORMATION

Packaging	part A: 36 kg cans / 298 kg drums / IBC part B: 28 kg cans / 232 kg drums / IBC
Colour	part A: colorless, liquid part B: dark brown, 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: ~1.49kg/l (23°C) part B: ~1.16kg/l (23°C)
Viscosity	part A: 300 mPa.s (23°C) part B: 115 mPa.s (23°C)

TECHNICAL INFORMATION

Compressive Strength > 25 MPa (24h)

APPLICATION INFORMATION

Product Temperature	Reaction-time depends on product temperature and substrate temperature. Please store both components prior to application at > +5°C.
Reaction time	Flow time: 1 min - 2 min (23°C) Setting time: 2 min - 3 min (23°C) Border time: < 5 min (until 1 MPa adhesion strength, lab conditions)

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 part B are delivered ready to use. Inject them in mixing ratio of 1:1 parts by volume using a 2-component injection pump equipped with a static in-line mixer nozzle. For optimal mixing of the components use a min. 32 cm static-in-line mixer in connection with the mixing head.

CLEANING OF TOOLS

- For short breaks in the injection procedure, pump part A through the in-line static mixer nozzle
- After the injection process rinse pump with suitable cleaning agent (e.g. SikaInject®-CL2) or water-free low-viscosity hydraulic oil
- Flush pump and injection hoses until SikaInject®-688 is completely washed out
- Store 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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