

PRODUCT DATA SHEET

SikaInject®-901

(formerly MSeal 901)

ACRYLATE BASED INJECTION RESIN FOR PERMANENT WATERPROOFING

DESCRIPTION

SikaInject®-901 is a multi-component, solvent free, water swelling acrylate based injection system that cures to form a flexible yet solid material with an excellent bond even to wet substrates. Depending on the degree of availability of moisture, the cured system swells reversibly up to 120% of its volume to act as an effective and permanent seal against ingress of water.

USES

- Sealing of cracks, joints and crevices
- Concrete, rock and masonry
- Stabilized cracks
- Non-moving joints in structural concrete
- Concrete construction joints (excl. expans. joints)
- SikaFuko® injection hose systems

CHARACTERISTICS / ADVANTAGES

- Swells in contact with water up to 120 %
- Prevents water ingress even when crack-width varies
- Water molecules held by molecular attraction
- Captured water = no capillary transport
- Unaffected by cycles of swelling and shrinking
- Continues to perform over long time, despite exposure to wetting and drying cycles
- Good bond to damp surfaces – advantage in damp structures
- Adjustable reaction time; 20–60 minutes, allows for deep penetration

PRODUCT INFORMATION

Packaging	22.066 kg Kit (Resin 2 × 10 kg / Accel. 2 × 1 kg / Hardener Powder 3 × 22 g)
Shelf Life	12 month in originally sealed containers
Storage Conditions	Store in a cool, dry place, protected from direct sunlight
Density	~1.07 kg/L (20 °C)
pH-Value	> 8.5 (20 °C)
Solid Content	68 %
Viscosity	30-40 mPa·s (20 °C, mixed)

APPLICATION INFORMATION

Consumption Required quantity depends on total volume of void to be grouted, absorption of substrate, loss and wastage. Trial may be conducted on a typical area to get an approximate estimation.

Pot Life

Application Temp. (°C)	Potlife required (min)				
	20	30	40	50	60
5			120	105	
10		142	105	80	
15		82	72	65	62
20	77	65	55	47	42
25	68	55	45	37	25
30	50	35	30	27	25
35	42	30	25	22	20
40	32	25	20	17	
45	27	22			
amount of accelerator (mL) per 1 L resin					

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.

LIMITATIONS OF USE

Do not inject SikaInject®-901 when the crack or joint is under severe hydrostatic pressure. Reduce the pressure to minimize material washout before injecting. At very high flow rates or pressure, it may be necessary to reduce the water ingress with a temporary, fast-foaming PU resin (e.g., SikaInject®-102) prior to the acrylate injection. Where moderate hydrostatic pressure exists, it is recommended to increase the accelerator content to achieve the shortest practical gel time.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces of cracks, joints and voids need to be clean, free of loose particles, dust, oil and any other bondbreaking substances. Any dirt must be blown out with compressed air.

MIXING

Partial quantities < 10kg:

- Fill 1 L of resin (Part A) in a mixing container
- Add necessary quantity of accelerator, see chart
- Dissolve 1 bag of hardener powder in 500 mL of water
- Add 50 mL of this hardener solution to the resin
- Mix all components thoroughly

Quantities ≥ 10kg:

- Dissolve 1 bag of hardener powder in 500 mL water
- Hardener powder cannot be directly dissolved in the resin
- Mix 500 mL of hardener-solution with the 10 kg unit of resin
- Add the necessary quantity of accelerator, see chart
- Mix all components thoroughly

APPLICATION

SikaInject®-901 can be applied via surface packers or mechanical packers. If surface packers are used, apply them with suitable adhesive (e.g. Sikadur®-31+, observe curing). If cracks/joints are wide open, crack-patching is necessary to avoid flow-out of resin. Due to its long workability time of 20-60 minutes SikaInject®-901 can be easily processed with 1-component pumps. SikaInject®-901 will react in dependence of the used material quantity and the ambient temperature. The data given in the metering chart are laboratory results, which may differ from actual results on site. Carry out a manual test to determine exact adjustments before injection work is commenced.

For sealing existing cracks, joints and seams, inject the mixed resin system into the crevices starting from its widest part through the installed packers. In the case of vertical cracks, start from the lowest level. Inject into each packer (keeping all others except the next one closed) until the pressure is built up to the required level. If resin starts issuing out of the open packer, close it. Maintain the injection pressure for ~5 minutes to allow total penetration. Continue until all the packers are injected. 24 hours after the injection, remove all the packers and fill resulting holes (e.g. Sikadur®-31+).

CLEANING OF TOOLS

Pumps, tools and equipment can easily be cleaned with water (uncured resin). Hardened material can be softened but even then only be removed mechanically.

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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