

## PRODUCT DATA SHEET

## Sika® Injection-107

1-component, polyurethane-based, slightly flexible, foaming injection resin for the permanent watertight sealing of cracks

## DESCRIPTION

Sika® Injection-107 is a ready-to-use 1-component, polyurethane based, slightly flexible, foaming injection resin for the permanent watertight sealing of cracks, voids and interstices in concrete.

## USES

Sika® Injection-107 may only be used by experienced professionals.

Sika® Injection-107 is used for permanent watertight sealing with some flexibility to absorb limited movement, in water-bearing cracks and joints in concrete, brickwork and natural stone structures.

## CHARACTERISTICS / ADVANTAGES

- Permanently elastic, can absorb limited movements
- Durable sealing of water-bearing cracks and voids of > 0.3mm
- Moisture-reactive, one-component polyurethane resin - water contact is required for the foaming reaction and curing to a permanently flexible sealing compound

## APPROVALS / STANDARDS

- Concrete injection for ductile filling of cracks, voids and interstices (D) according to EN 1504-5:2004, Declaration of Performance 70712948, certified by notified factory production control certification body 0761 and provided with CE marking.

## PRODUCT INFORMATION

|                    |                                                                                                                    |            |
|--------------------|--------------------------------------------------------------------------------------------------------------------|------------|
| Chemical Base      | Moisture and water reactive one - component, foaming polyurethane resin                                            |            |
| Packaging          | Available in metal containers of:<br>1.0kg<br>5.3kg<br>10.6kg<br>21.2kg                                            |            |
| Colour             | Yellowish                                                                                                          |            |
| Shelf Life         | 12 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 moisture.                    |            |
| Density            | 1.1 kg/l (at 20 °C)                                                                                                | (ISO 2811) |
| Viscosity          | ~250 mPa·s (at 23 °C)                                                                                              | (ISO 3219) |

## TECHNICAL INFORMATION

|                                  |                               |              |
|----------------------------------|-------------------------------|--------------|
| <b>Elongation at Break</b>       | >10 %                         | (EN 12618-1) |
| <b>Expansion</b>                 | Expansion starts              | 21 sec       |
|                                  | Expansion ends                | 130 sec      |
|                                  | Free foaming factor           | ~22 - fold   |
|                                  | Reaction time with 10 % water |              |
| <b>Tensile Adhesion Strength</b> | 0.6 N/mm <sup>2</sup>         | (EN 12618-1) |

## APPLICATION INFORMATION

|                                |                              |
|--------------------------------|------------------------------|
| <b>Mixing Ratio</b>            | 1-Component                  |
| <b>Ambient Air Temperature</b> | +8 °C min./+40 °C max.       |
| <b>Substrate Temperature</b>   | +8 °C min./+40 °C max.       |
| <b>Pot Life</b>                | ~1 hour at 23 °C / 50 % r.h. |

## 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

- Only for professional contractors and trained personnel to use
- Sika® Injection-107 can only be injected in moisture containing areas.
- For application in dry areas pre-inject with clean water

## 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 and friable particles, with no dust, oil, grease or any other bond-breaking substances
- Any dirt must be blown out with compressed air
- Pre-wet access areas to make cleaning easier

### APPLICATION METHOD / TOOLS

Sika® Injection-107 can be used with normal single component injection pumps.

Empty the Sika® Injection-107 into the hopper of the single component pump and start the injection process.

A secondary injection process must be carried out within the gel time (~30 minutes) of the first injection. The secondary injection can usually be carried out through the same packer. A new packer might have to be installed if the secondary injection is done more than 30 minutes after the first one.

### CLEANING OF TOOLS

Clean all tools and application equipment as soon as possible and in accordance the Product Data Sheet for the Sika® Injection Cleaning System.

## 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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### **Product Data Sheet**

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