

PRODUCT DATA SHEET

Sika® Injection-101 AP

Polyurethane flexible injection resin for water stopping and waterproofing

DESCRIPTION

Sika® Injection-101 AP is a 2-part, polyurethane, low viscosity, fast foaming, water-reactive injection resin. It cures to form a dense flexible foam.

USES

Sika® Injection-101 AP may only be used by experienced professionals.

- Used for stopping highwater intrusions in cracks, joints and cavities in concrete, brickwork, masonry and natural stonework
- Used in special applications such as bored or sheet pile walls, anchor heads and micro tunneling.

CHARACTERISTICS / ADVANTAGES

- Requires direct contact with water for foaming reaction to commence
- Can be injected as a single component system
- Free foaming expansion in contact with water up to 40 times

APPROVALS / STANDARDS

Watertightness test acc. EN 14068, MPS BS

PRODUCT INFORMATION

| | | | |
|---------------------------|---|---------------|-------------------|
| Chemical Base | Water reactive 2-part polyurethane resin, solvent and CFC free | | |
| Packaging | Part A (Polyol) | 2.5, 5, 18 kg | |
| | Part B (Isocyanate) | 3, 6, 21.6 kg | |
| | Refer to current price list for packaging variations. | | |
| Shelf Life | 12 months from date of production | | |
| Storage Conditions | The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging. | | |
| Colour | Part A (Polyol) | Colorless | |
| | Part B (Isocyanate) | Dark Amber | |
| Density | Part A (Polyol) | ~1.0 kg/l | (Values at +23°C) |
| | Part B (Isocyanate) | ~1.2 kg/l | |
| Viscosity | Part A (Polyol) | ~430 mPas | (Values at +23°C) |
| | Part B (Isocyanate) | ~230 mPas | |

TECHNICAL INFORMATION

| | | | |
|-----------|-----------------|--------------------------------------|-------------------|
| Expansion | Expansion start | ~10 seconds after contact with water | (Values at +23°C) |
| | Expansion end | ~70 seconds | |

APPLICATION INFORMATION

| | | | |
|-------------------------|---------------------------------|-----------------|---------------|
| Mixing Ratio | Part A : Part B = 1:1 by volume | | |
| Ambient Air Temperature | +5 °C min. / +40 °C max. | | |
| Substrate Temperature | +5 °C min. / +40 °C max. | | |
| Pot Life | ~1 hour (at + 20 °C) | | |
| Reaction time | Material temperature | Expansion start | Expansion end |
| | + 5 °C | ~ 45 sec | ~ 175 sec |
| | + 20 °C | ~ 15 sec | ~ 75 sec |
| | + 40 °C | ~ 2 sec | ~ 55 sec |

1. The data above are laboratory parameters and may deviate depending on the situation and conditions on site.
2. The reaction speed (foam formation) is influenced by the temperatures of the mixed material, the structure and the contact water, plus the hydrodynamic conditions.
3. Smaller volumes can be used at a ratio of Part A: Part B = 1:1 by volume

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

Remove any skin formation on the resin or hardener from the surface. Do not mix back into the liquids.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets before using any products. 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

MIXING

Empty Parts A + B into a mixing vessel and mix slowly and thoroughly for at least 1 min (max. 250 rpm) until completely mixed.

After mixing, pour the material into the pump's feed container, stir briefly and use within the pot life.

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Use injection pumps suitable for single part injection products.

CLEANING OF TOOLS

Clean all tools and application equipment using 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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