

## PRODUCT DATA SHEET

# Sika® Injection-101 IN

Flexible water reactive closed cell polyurethane injection foam for stopping water leakage

### DESCRIPTION

Sika® Injection-101 IN is a low viscous, fast foaming, two component polyurethane hydrophobic resin, which reacts with water to produce a flexible foam. It is suitable for stopping water leaks and waterproofing of cracks and joints in concrete.

### USES

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

It is used for stopping running water leaks in structures such as:

- Foundations, raft and retaining walls
- Below grade structures
- Tunnels and underpasses
- Sewage systems
- Tanks and Silos
- Waterways and dams

### CHARACTERISTICS / ADVANTAGES

- Water reactive grout
- Effective sealer of joints, cracks and voids in concrete
- Low viscosity
- Deep penetration with minimal pressure
- Produces a flexible and completely hydrophobic foam
- Easy to apply with single component pump
- Suitable for use under hydrostatic pressure
- Excellent free foaming up to 40 times
- Good resistance to fungi and micro-organisms
- Environment friendly

### PRODUCT INFORMATION

<b>Chemical base</b>	Polyurethane	
<b>Packaging</b>	Part A+B pre-batched	5.0 kg
	Part A (base)	4.5 kg
	Part B (catalyst)	0.5 kg
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Opened packs must be used as soon as possible.	
<b>Colour</b>	Yellowish (foam)	
<b>Density</b>	Part A	~1.05 kg/m <sup>3</sup>
	Part B	~1.05 kg/m <sup>3</sup>
<b>Flash point</b>	> 110 °C	

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : Part B = 90 : 10 Note: The ratio may be slightly adjusted based on reaction time required, upto a lowest of 98 : 2. Higher the quantity of catalyst, lesser the reaction time.
<b>Ambient air temperature</b>	+10 °C min. / +40 °C max.
<b>Substrate temperature</b>	+10 °C min. / +40 °C max.
<b>Gel time</b>	~10 seconds
<b>Tack free time</b>	~2 hours

## 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.

## FURTHER DOCUMENTS

Sika Method Statement : Sika® Injection-101 IN

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- Use a high-pressure washer to remove oil, grease and wax contaminants from the crack.
- Cement laitance, loose particles, mould release agents, cured membranes must also be removed.
- Large voids, weak concrete, cracks, joints and honeycombs to be sealed properly using Sikadur® or Sika MonoTop® repair mortar to avoid loss of resin flowing outside the treatment area.
- Installed packer periphery must be sealed with Sikagard®-694 F(I) or Sika MonoTop®-108 Water Plug IN before starting any injection process.

### MIXING

#### IMPORTANT

Mix full units only.

Note: Use a spiral paddle in an electric single paddle mixer at a maximum speed of 250 rpm.

#### IMPORTANT

The proportion of catalyst is pre-batched in ratio specified. However, to modify the reaction times in some temperature and humidity conditions the proportion of catalyst can be adjusted between 2 % to 10 %. Please consult Sika Technical Services for further advise.

#### IMPORTANT

After mixing, the container must be covered to avoid a premature start of the reaction process.

1. Pour whole of Part A (base) and Part B (catalyst) into a clean mixing container.
2. Mix Parts A+B continuously for ~3 minutes until a uniformly smooth homogenous mix is achieved.

#### APPLICATION

#### IMPORTANT

Use injection pumps suitable for single part injection products.

1. Pour the material into the pump's feed container and stir briefly.
2. Starting from minimum, gradually increase pump pressure until reaching the desired rate of injection.  
NOTE: Injection rate and pressure depends on the size of the cavity to be filled and the condition of the substrate in general.
3. Consume the mixed injection resin as soon as possible.

#### CLEANING OF TOOLS

Clean all tools and application equipment with good quality solvent like xylene or toluene. Hardened or cured material can only be removed mechanically.  
NOTE: Using other cleaning agents may cause remains to solidify.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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