

# PRODUCT DATA SHEET

# Sika® Injection-101 RC

Polyurethane flexible injection resin for temporary waterstopping

# **DESCRIPTION**

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

# **USES**

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

- Temporary waterstopping of high water intrusions in cracks, joints and cavities in concrete and masonry.
- Waterstopping in special applications such as bored or sheet pile walls, anchor heads and microtunneling.
- To achieve permanent watertight crack sealing inject with Sika® Injection-201 CE or Sika® Injection-203 after temporary waterstopping.

# **CHARACTERISTICS / ADVANTAGES**

- Foaming reaction only takes place in direct contact with water
- Can be injected as a single component system
- Free foaming expansion up to 40 times
- Can be accelerated using Sika® Injection AC-10 in cold temperatures (< +10 °C)</li>

### **ENVIRONMENTAL INFORMATION**

• FEICA Environmental Product Declaration (EPD)

# APPROVALS / STANDARDS

- Compilation of certified polyurethanes and injection processes for use on structures and components of federal traffic routes ZTV-ING, Part 3, Section 5 (RISS), Sika® Injection-101 RC, Bundesanstalt für Strassenwesen, 20.01.2016
- Large-surface sealants suitability according to KTW recommendations, Sika® Injection-101 RC, LADR Zentrallabor, July 2019

## PRODUCT INFORMATION

Composition	Water reactive polyurethane resin			
Packaging	Part A (Resin)	10 kg		
	Part B (Hardener)	12.5 kg		
Shelf Life	24 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 (Resin)	Colourless		
	Part B (Hardener)	Brown		
Density	Part A (Resin)	~1.0 kg/l	(ISO 2811)	
	Part B (Hardener)	~1.25 kg/l		

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	Values at +20 °C			
Viscosity	Part A (Resin)	~140 mPa·s		(ISO 3219)
	Part B (Hardener)	~155 mPa·s		
	Values at +20 °C			
TECHNICAL INFORMATION				
Expansion	Expansion start	~15 seconds after with water	r contact	(EN 1406)
	Expansion end	~67 seconds		
	Values at +20 °C			
APPLICATION INFORMATION	N			
Mixing Ratio	Part A : Part B = 1:1 by Reaction times (PM 10081-11)	volume  0 % Sika® Injection A	C.10*	
	Material temperature	Expansion start	Expansion end	
	+5 °C	~19 sec	~89 sec	
	+10 °C	~17 sec	~88 sec	
	+20 °C	~16 sec	~70 sec	
	5 % Sika® Injection AC-10 *			
	Material temperature	Expansion start	Expansion end	
	+5 °C	~12 s	~57 s	
	+10 °C	~11 s	~49 s	
	+20 °C	~10 s	~39 s	
		10 % Sika® Injection AC-10 *		
	Material temperature	Expansion start	Expansion end	
	+5 °C	~9 s	~41 s	
	+10 °C	~8 s	~37 s	
	+20 °C	~7 s	~35 s	
	* Dosage of Sika® Inject (Parts A+B) The data above are lab the situation and condi The reaction speed (foa the mixed material, the dynamic conditions. Smaller volumes can be	oratory parameters an tions on site. Im formation) is influer structure and the con	d may deviate dependenced by the temperated tact water, plus the	ending on atures of hydro-
Ambient Air Temperature	+5 °C min. / +35 °C max.			
Substrate Temperature	+5 °C min. / +35 °C max			
<u> </u>	•			

~2 hours (at + 20 °C)

# **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.

# **IMPORTANT CONSIDERATIONS**

- Remove any skin formation on the resin or hardener from the surface. Do not mix back into the liquids.
- Sika® Injection-101 RC is used for the temporary stopping of high water infiltration. Subsequently inject with Sika® Injection-201 CE or Sika® Injection-203 to achieve permanent watertight crack sealing.



(ISO 9514)

**Pot Life** 

# **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

#### MIXING

Empty Parts A + B into a mixing vessel and mix slowly and thoroughly for at least 3 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. If the substrate and/or ambient temperatures are < +10 °C, Sika® Injection AC-10 can be added to Sika® Injection-101 RC to accelerate the start of expansion.

### **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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