

## PRODUCT DATA SHEET

# SikaInject®-255 IN

Highly reactive, two component polyurethane injection foam to stop high volume water ingress and for ground consolidation (Formerly known as MasterRoc® MP 355, 2 Component)

### DESCRIPTION

SikaInject®-255 IN is a two component, solvent-free polyurethane injection resin specifically designed for rapid water stopping and ground consolidation

### USES

SikaInject®-255 IN may only be used by experienced professionals.

Permanent stopping of high-volume water ingress in underground structures

- Also suitable for cold water
- Ground consolidation

### CHARACTERISTICS / ADVANTAGES

On contact with water, the product forms a rigid foam.

- Without the presence of water, the product also reacts and forms a hard substance. This is a significant safety advantage, as the material never remains uncured.
- On contact with water the reaction is completed within a short period of time.
- Provides structural strength and rigidity.

### PRODUCT INFORMATION

<b>Packaging</b>	PART A: 25 kg cans and 205 kg drums PART B: 30 kg cans and 250 kg drums	
<b>Shelf life</b>	24 months from the date of production	
<b>Storage conditions</b>	If stored in dry conditions in unopened, tightly closed original containers and within a temperature range of +5°C and +35°C, the components of SikaInject®-255 IN have a shelf life of 24 months.	
<b>Colour</b>	<b>At 20°C</b>	<b>Color</b>
	PART A	Yellowish
	PART B	Dark brown
	Accelerator 10	Yellowish
	Accelerator 15	Yellowish
	Accelerator 25	Yellowish
<b>Density</b>	<b>At 20°C</b>	<b>Density (kg/l)</b>
	PART A	1.00
	PART B	1.23
	Accelerator 10	1.00
	Accelerator 15	1.00
	Accelerator 25	0.90

Viscosity	At 20°C	Viscosity (mPa.s)
	PART A	320
	PART B	240
	Accelerator 10	500
	Accelerator 15	1000
	Accelerator 25	20

## 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

Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and safety glasses. If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with boracic solution and seek medical advice. Refer to the Material Safety Data Sheet for safety measures. The products are harmless

## 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

### APPLICATION

Part A and B are delivered ready to use. They are injected in the proportion of 1:1 by volume using a two-component injection pump equipped with a static in-line mixer nozzle.

SikalInject®-255 IN's properties can be altered by the use of three different accelerators:

- SikalInject®-255 IN Accelerator 10
- SikalInject®-255 IN Accelerator 15
- SikalInject®-255 IN Accelerator 25

**Note:** The foaming reaction time is dependent on the temperature of the product, and the ground water

**For a high foaming factor (approximately 20-25) and a rapid reaction for water stopping:**

Add the Accelerator 10 to PART A by 0.5 - 2% dosage (by weight of PART A).

**For a dense foam (factor 7-9) with high mechanical strength for ground consolidation:**

Add the Accelerator 15 to PART A by 0.5 - 2% dosage (by weight of PART A).

**If a big amount of water is expected in soil or rock and a strong foam with a low expansion factor is needed :**

Accelerator 25 should be added to PART A by 0.1 - 1% dosage (by weight of PART A). Accelerator 25 combines the functions of Accelerator 10 and Accelerator 15.

### If a particularly rapid reaction is required:

One can additionally premix water to PART A, 2% by volume of PART A.

After the addition of accelerator (and water if added) to Part A, the can should be shaken vigorously to ensure even dispersion throughout the resin prior to injection works.

To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is strongly advised. The length of the static mixer should be approximately 32 cm.

**Note:** SikalInject®-255 IN is not suitable for large volume void filling.

### CLEANING OF TOOLS

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. After the injection process pump an appropriate cleaning and maintenance agent from our range or oil containing no water, through the pump and injection hoses until SikalInject®-255 IN is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

## 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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