

PRODUCT DATA SHEET

Sika® Injection-125 MY

SINGLE COMPONENT LOW VISCOSITY HYDROPHOBIC POLYURETHANE GROUT

DESCRIPTION

Sika® Injection-125 MY is a single component hydrophobic hydroactive injection grout based MDI (methylene-diphenyl isocyanate) polyurethane. Sika® Injection-125 MY has very fast reaction time. When Sika® Injection-125 MY reacts with water, it starts to foam and expand very quickly. As the grout reacts, it expands and stops the water leak within a very short period. Expansion ratio is dependent on the amount of water added to the resin mixture and the moisture level in the environment. It reacts to form a very dense and flexible material or to a flexible foam.

USES

- To seal leaking live crack movement joints, pipe intrusions, etc. suffering from infiltration in basements and concrete below water table
- To seal and fill defective concrete (honeycombs, voids, etc.)

CHARACTERISTICS / ADVANTAGES

- Totally water resistant
- High expansion rate to ensure good seal
- Short waiting time, reactive with water and foam within 2–3 minutes
- No shrinkage
- Non-toxic in cured form
- Resistant to biological attack and to mild acids, alkalis, etc.

PRODUCT INFORMATION

Packaging	20 kg pail	
Colour	Dark brown	
Shelf Life	12 months from date of production	
Storage Conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost. Opened pails must be resealed immediately after use. Material exposed to atmospheric moisture will cure within 7–10 days. Shake the pails before use and once opened should be used as soon as possible.	
Density	1.1 ± 0.03 kg/l	(ASTM D1622)
Viscosity	500–1 000 cps	(ASTM D1638-74)

TECHNICAL INFORMATION

Expansion	2 000–3 000 %
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APPLICATION INFORMATION

Reaction Time	Induction time	90 seconds at +20 °C
	Foaming time	Within 5 minutes

Gel time	120–300 seconds at +25 °C
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APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

- By single action piston pump operating at high pressure
- By twin piston pump when mixed with water (1:1) to produce foams of different densities

Sika® Injection-125 MY is for injection directly in water bearing cracks and joints. On contact with water, it forms and expands to fill voids and prevent infiltration. Cures to form a flexible seal.

Sealing Cracks (minimum crack width is 0.2 mm)

Drill 15–22 mm holes along the side of the crack at a 45° angle. Drill the holes to intersect the crack midway. Install injection packers in the holes and tighten. If the crack to be injected is 10 mm wide or more at the surface, pack an open cell polyurethane foam saturated with Sika® Injection-125 MY into the crack. Spray the saturated foam with a small amount of water to activate the grout and create a surface seal. Pump Sika® Injection-125 MY at > 20 bar into or behind fissures or into voids which are allowing water to infiltrate into unwanted areas. If voids in concrete being injected contain insufficient moisture to activate the grout, inject a small amount of water prior to injecting the grout. Pump Sika® Injection-125 MY for approximately 45 seconds and then pause to allow the material to flow into all the cracks and crevices. Keep pumping, watch for material flow and water to appear at the surface of the next packer. When movement stops or Sika® Injection-125 MY appears at the next packer move to the next packer and inject. When sealing vertical cracks start at the bottom and work upwards. Refer to our Technical Service Department for advice on smaller cracks.

CLEANING OF TOOLS

Completely flush the pump and hose with Sika® Colma-Cleaner or Thinner C. Use putty knife or trowel to remove excess material from walls, floors, etc. Wait for the material to cure before removing. May be sanded off.

IMPORTANT CONSIDERATIONS

- Expanding Sika® Injection-125 MY exerts a pressure of up to 3 bar. Consideration should be given to the effect of this on the structure.
- Use caution when cleaning the equipment with flammable agents.
- Do not use Sika® Injection-125 MY when relative humidity is more than 85 %, or when rain is imminent or concrete age is less than 28 days.

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.

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.

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.

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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