

PRODUCT DATA SHEET

Sika® Injection-127 H

HYDROPHOBIC POLYURETHANE FOAM FOR CRACK INJECTION

DESCRIPTION

Sika® Injection-127 H is a water-activated hydrophobic polyurethane injection grout designed to stop water leakages.

USES

Sika® Injection-127 H is typically used to stop water leakages coming through cracks or honeycomb concrete voids. It is used in conjunction with high pressure injection pump. It can be used in the following areas and applications:

- Concrete joints and cracks
- Defective concrete (cracked or honeycomb)
- Potable water tank, waste water tank, and Pool
- Pipe intrusion
- Basement
- Tunnels, dams
- Sewers, manholes, utility boxes
- Soil stabilization

PRODUCT INFORMATION

Composition	Hydrophobic polyurethane
Packaging	Component A : 20 kgs pail Component B : 2 kgs pail
Colour	Component A+B : Yellow-White flexible foam
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in-door, protected from direct sunlight and humidity.
Density	~ 1 g/cm ³ (at temperature 25°C)
Freezing Point	-60 °C
Flash Point	>156 °C
Viscosity	50-400 cps (at temperature 25°C)

CHARACTERISTICS / ADVANTAGES

- Low viscosity offers superior penetration through narrow or hairline cracks
- Variable reaction time allows to be used in broad range of applications
- Expand up to 30 times of the original volume
- Closed and fine cell foam results in best waterproofing ability
- Seal cracks quickly and efficiently
- Cured material not affected by water or dryness
- Flexible and good adhesion to concrete
- Non-toxic once in cured form

APPROVALS / CERTIFICATES

According to ASTM D7487

APPLICATION INFORMATION

Mixing Ratio

A:B = 10:1

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces must be free from oil, grease, dirt and poorly adhering matter.

MIXING

Mix Sika® Injection-127 H part A (Resin) with part B (Catalyst) using the typical ratio 10:1. However, the amount of accelerator may be increased or decreased as needed based on job site condition. Mix by stirrer until the chemical appeared homogeneous.

APPLICATION METHOD / TOOLS

Installing the packers

In order to inject resin into the cracks, it is necessary to install mechanical packers. Mark the packer positions and drill the holes, make sure they pass through the cracks. Depth of drilled holes should be somewhere between center of structure, if possible. Place packers in the previously drilled holes. If the packers can't be pushed into the hole, tap it in. Tighten the packers with a wrench as tight as necessary.

Injection

Pump Sika® Injection-127 H through the injection port until evidence of material begins to show on concrete surface. Inject from the bottom up. Wait for material rise up the cracks. After all ports are injected, repeat the steps by going back to inject each port once again. This may be repeated the third time if necessary to ensure entire cracks has been treated. In dry crack, water maybe introduced to the drilled holes by using water gun to hasten reaction of polyurethane. With this, there will be enough moisture in the concrete to eventually cause the full cure.

CLEANING OF EQUIPMENT

Tools and equipment must be cleaned immediately after use. Packers can be removed within one hour and the holes should be patched.

IMPORTANT CONSIDERATIONS

This product is moisture activated. It is essential for all equipments to be dry. Avoid any moisture contact with the mixture to prevent premature reaction of the product. If reaction of the batch occurs while pumping, immediately shut down the machine and flush with cleaner to avoid built up and clogging of the equipment.

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 Material Safety Data Sheet 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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