



WATERPROOFING

Sika[®] INJECTION-107

1-C POLYURETHANE RESIN BASED FOAMING INJECTION RESIN

Sika® Injection-107

For sealing cracks and construction joints in concrete structures

SIKA® INJECTION-107 is a hydrophilic 1-component-polyurethane resin based injection foam designed for permanent durable waterproofing applications. It reacts only in contact with water, when it expands to a foam material that is permanently flexible and elastic.

Characteristics/Advantages:

- One-component polyurethane resin based
- Ideal material for injection to stop water flow and penetration
- Permanently flexible and elastic to accommodate limited movement $\leq 10\%$
- Durable sealing of water-bearing cracks ≥ 0.3 mm and voids
- Moisture-reactive, needs moisture for reaction
- Suitable for the repair of cracks, voids and interstices in accordance with EN 1504-5 (CE marked)
- Easy and fast application
- Pre-wetted concrete surfaces can easily be cleaned if excess material is used

Use:

Sika® Injection-107 is used:

- In damp, wet and water containing cracks, voids and interstices in concrete structures
- Recommended max. waterhead of 10 m

Packaging:

Sika® Injection-107 is available in 3 different sized units:

- 5.3 kg packs
- 10.6 kg packs
- 21.2 kg packs

TESTING ACCORDING TO EN 1504-5

CE-Mark

Generally foaming polyurethane based injection resins are used for temporary waterstopping against water under hydrostatic pressure in cracks and joints. These are usually then re-injected with a micro-foaming polyurethane resin based product such as Sika® Injection-201 CE. Normally only these micro-foaming materials will achieve a CE-mark according to EN 1504-5.

Sika® Injection-107 has been awarded the CE-Mark and can therefore be used for such permanent injection sealing and in which case it is re-injected with itself during the geltime.

Sika® Injection-107 is tested according to EN1504-5 for the intended applications of U(D1) (3)(2/3/4)(8/50) and therefore it can be used for permanently watertight sealing.

U(D1) (3)(2/3/4)(8/50):

- U(D1) = Ductile injection up to water pressures of 2 bar
- U(D1) (3) = can be injected in cracks with widths of 0.3 mm
- U(D1) (3)(2/3/4) = can be injected in wet cracks, with flowing water under and without hydrostatic pressure
- U(D1) (3)(2/3/4) (8/50) = can be used at a temperature range from 8 - 50°C



APPLICATION

Typically use for crack and construction joint injection with limited waterproofing

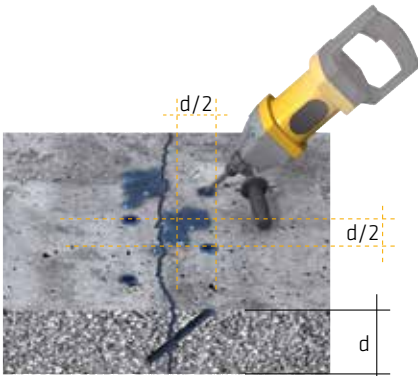


Crack Injections



Construction Joint Injections

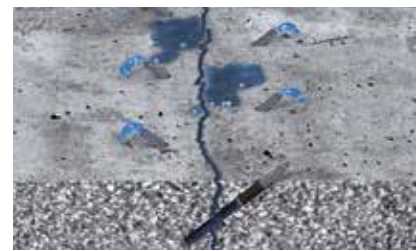
SEQUENCE OF APPLICATIONS



1. Drill holes for the packers on alternating sides of the cracks at a 45° angle to the concrete surface as shown in the picture. Packer size to suit the drilled holes.



2. Install the mechanical injection packers and tighten so that they can withstand the maximum injection pressure to be applied.



3. Fix the non-return valve/nipple on the first packer and begin the Sika® Injection-107 injection process.

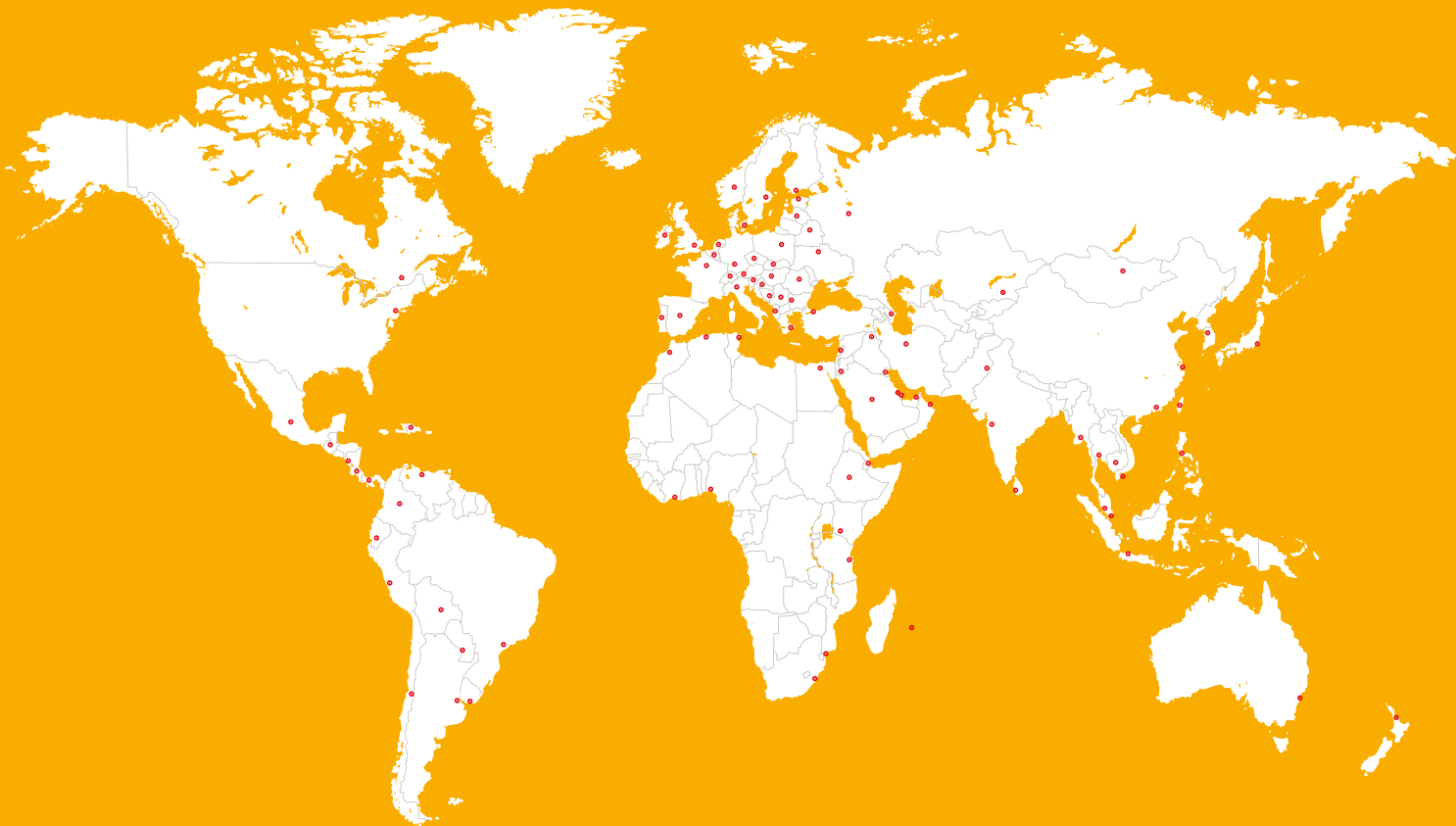
4. When the material flows out of the second packer during the injection process, fix the non-return valve on to this as quickly as possible. Stop injection on the first packer and continue through the second packer

5. Repeat this procedure moving from packer to packer.

6. During the gel time a second injection procedure is carried out to ensure that the crack is completely filled and sealed.



GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE WATERPROOFING INFORMATION:



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



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