



# KOSTER 2 IN 1

## Water reactive, elastic polyurethane injection resin for single and two stage injections of dry and water-bearing cracks and joints

### Features

When KOSTER 2 IN 1 resin comes into contact with water, it reacts to form a highly elastic foam. When injected under dry conditions, it reacts to form a solid body elastic resin. KOSTER 2 IN 1 remains permanently elastic after reacting, enabling it to follow crack movement and seal cracks permanently, eliminating follow-up injections. KOSTER 2 IN 1 is a fast reacting foam for the short term sealing of leaks, as well as an elastic solid resin for the permanent sealing of cracks. It is solvent-free and resistant to hydrolysis. KOSTER 2 IN 1 will not corrode steel or iron.

### Technical Data

Viscosity, 77°F	Approx. 250 cps
Volume increase at water contact	Max. 1:20
Density of mixture, 70°F	Approx. 9.18 lb/gal
Specific gravity of cured foam	Approx. 0.05-0.1 g / cm <sup>3</sup>
Starting time at water contact	Approx. 50 sec
Expansion time	Approx. 3 min
Non-sticky after	Approx. 6 min
Pot life (70°F, 1 kg mixture)	45 min
Reaction time without water contact (70°F)	Approx. 24 hrs
Mixing ratio, by weight (A : B)	1 : 1

### Fields of Application

KOSTER 2 IN 1 stops active leaks and seals cracks and construction joints permanently and elastically. It can be injected into dry and wet cracks, and can be used to fill voids.

### Application

Before injection, seal crack faces using KOSTER KB-Fix 5. Minimum application temperature is 40°F. Bring the material up to 60°F before mixing and injection. Temperatures above 77°F will increase reaction rate and reduce pot life. Perform injection using a conventional single component injection pump such as the electrical KOSTER 1C Injection Pump. Drill holes on alternating sides along the course of the crack at an interval of 4 - 6 inches. Insert injection packers into the holes and (when possible) inject from bottom to top. The diameter of the drill holes depends on the injection packers chosen. Perform injection in two stages:

- 1) Inject KOSTER 2 IN 1 until the resin is discharged as foam from the adjoining drill hole or the surface of the crack.
- 2) Re-inject KOSTER 2 IN 1 within 10 to 15 minutes of the initial injection. Perform the follow-up injection within the pot life of the initially injected material. When filling large, wet voids, wait at least 1 hour.

### Coverage

Approx. 0.1 gal / gal void (foam)  
Approx. 1 gal / gal void (solid resin)

### Cleaning

Clean tools immediately after use with KOSTER KB-Pur Cleaner.

### Packaging

IN 201 001	2.2 lb can
IN 201 005	11 lb combipackage
IN 201 012	12 x 1 kg Karton
IN 201 025	6 gallon kit

### Storage

Store the material between 50°F and 90°F. Material can be stored in original sealed packages for 6 months.

### Safety

Consult Safety Data Sheet. Wear protective gloves and goggles when processing the material. When carrying out injection work, protect the surrounding work area from injection resin that may be discharged from the wall, packers, or drill holes. Do not stand directly behind the packers during injection.

### Limited Warranty

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the products data sheet. KOSTER covenants that in the event any of its products fail to meet their published specifications, KOSTER shall replace those products proved to be defective. KOSTER shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, KOSTER's sole liability hereunder shall not exceed the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, KOSTER MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED AND MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.

### Related products

KOSTER KB-FIX 5	Art.-Nr. C 515 015
KOSTER KB-Pur Cleaner	Art.-Nr. IN 900 010
KOSTER Impact Packer 12	Art.-Nr. IN 903 001
KOSTER Superpacker	Art.-Nr. IN 915 001
KOSTER One-Day-Site Packer	Art.-Nr. IN 922 001

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The installer is responsible for the correct application taking into consideration the specific conditions of the construction site and the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which deviate from the specifications contained in any Company literature may not be relied upon in the absence of written confirmation from the Company. The installer must comply with all testing, technical requirement, guidelines, and industry customs at all times. The terms, conditions, and limitations contained in the written warranty for the product controls over the specifications contained herein. This guideline has been technically revised; all previous versions are invalid.

KOSTER 1C Injection Pump  
KOSTER Hand Pump  
KOSTER Footpump

Art.-Nr. IN 929 001  
Art.-Nr. IN 953 002  
Art.-Nr. IN 958 001

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The installer is responsible for the correct application taking into consideration the specific conditions of the construction site and the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which deviate from the specifications contained in any Company literature may not be relied upon in the absence of written confirmation from the Company. The installer must comply with all testing, technical requirement, guidelines, and industry customs at all times. The terms, conditions, and limitations contained in the written warranty for the product controls over the specifications contained herein. This guideline has been technically revised; all previous versions are invalid.

**KOSTER AMERICAN CORPORATION | 2585 Aviator Drive | Virginia Beach, VA 23453**  
**Phone (757) 425-1206 | Fax (757) 425-9951 | [info@kosterusa.com](mailto:info@kosterusa.com) | [www.kosterusa.com](http://www.kosterusa.com)**