



KOSTER KB-Pur[®] 2 IN 1 Injection Resin

Water reactive elastic Polyurethane-injection resin for single and two stage injections of leaking cracks and joints

Technical guideline / Article number 6.145
Issued: July 14, 2011

Features:

KOSTER KB-Pur[®] 2 IN 1 acts like a single component injection resin if it comes into contact with water. In this case, it reacts to form a highly elastic foam. KOSTER KB-Pur[®] 2 IN 1 acts like a two component injection resin under dry conditions. KOSTER KB-Pur[®] 2 IN 1 remains elastic after reacting. It is able to follow crack movements and seal cracks permanently with an elastic polyurethane solid resin without the need for follow-up injections. KOSTER KB-Pur[®] 2 IN 1 is a fast reacting foam for the short term closure of leaks as well as an elastic solid resin for permanent closure of cracks. KOSTER KB-Pur[®] 2 IN 1 therefore combines two resins into one product. KOSTER KB-Pur[®] 2 IN 1 is solvent free and is resistant to hydrolysis.

Technical Data:

Mixing viscosity at 77°F:	approx. 250 cps
Volume increase at water contact:	max. 1:20
Density of the mixture at 68°F:	9.18 lb/gal.
Spec. gravity of the cured foam	approx. 0.05 – 0.1 g/cm ³
Starting time at water contact:	approx. 50 sec.
Expansion Time:	approx. 3 min.
Tack-free after	approx. 6 min.
Pot life at 68°F	approx. 45 min.
Reaction time without water contact	approx. 24 hrs.
Mixing Ratio (by weight)	1:1 (A:B)
Mixing Ratio (by volume)	1:1 (A:B)

Usage:

The material may be applied for single-staged sealing of leaks in concrete and masonry using a pressurized injection system without requiring follow-up injections and it may also be used for two-staged sealing.

Mixing:

The A and the B components are recommended to be mixed at 68°F in the above stated mixing ratio using a slowly rotating electrical mixer preferably equipped with a KOSTER Resin Stirrer. The material must be mixed until it is streak free and homogeneous in appearance.

Application:

The mixed material must be used up within the pot life. The mixed resin may be applied using conventional single component injection pumps such as the KOSTER 1C Injection Pump. Prior to the injection, the cracks to be worked on are sealed using KOSTER KB-Fix 5. Along the

course of the crack, holes are drilled on alternating sides of the crack in an interval of approx. 4-6 inches. Then the holes are closed with injection packers and injected proceeding from bottom to top. The diameter of the drill holes depends upon the size of the injection packers used. In case of dry cracks, KOSTER KB-Pur[®] 2 IN 1 is applied using single-step injection.

In the event of water bearing cracks, the injection is carried out in two stages:

1st Stage: Injection of KOSTER KB-Pur[®] 2 IN 1 until the resin is discharged as foam from the adjoining drill hole or the mouth of the respective crack.

2nd Stage: Follow-up injection with KOSTER KB-Pur[®] 2 IN 1 within approx. 10 to 15 minutes of the preceding injection with KOSTER KB-Pur[®] 2 IN 1. The follow-up injection must be installed within the pot life of the mixed material.

Coverage:

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

Cleaning of tools:

Immediately after use with KOSTER KB-Pur[®] Cleaner.

Packaging:

103.3 gal, 6 gal, 1.2 gal, 0.24 gal combi-packages

Storage:

Store the material at temperatures between 50 and 86°F; in originally sealed packages, it may be stored for 12 months.

Safety Precautions:

Wear protective gloves and goggles. When carrying out injection works, make sure to protect the surroundings from injection resin that may be discharged from the wall, packers, boreholes etc. due to the pressurized mode of injection or accidentally. Do not stand directly behind the packers during injection.

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.