



## KÖSTER PUR Gel

- Application-technical test certificate of the MPA Leipzig

### Water activated polyurethane gel for area injections as well as for waterproofing expansion and dilation joints

#### Features

KÖSTER PUR Gel is a solvent-free, water activated polyurethane gel. Depending on the amount of water added, a highly elastic, waterproof gel or respectively hydro-gel foam is formed. After it has reacted in dilutions up to 1:10, it is resistant to pressurized water. It does not contain free isocyanides and is chemically stable after reacting. It does not contribute to corrosion. KÖSTER PUR Gel reacts with water and can bind up to ten times its own weight in water. Oakum soaked in KÖSTER PUR Gel can be an elegant method for solving difficult active water ingress problems in pipes, joints, and cavities. It is often used where large amounts of free water must be bound.

#### Technical Data

Solubility	mixable with water
Material viscosity	600 - 800 mPa·s
Application viscosity	2 - 300 mPa·s
Application temperature	> 0 °C
Reaction time	1.5 to 3 minutes

#### Fields of Application

KÖSTER PUR Gel is intended for waterproofing below ground structural elements through area injection in highly porous, jointed and cracked building materials, and for waterproofing dilation and expansion joints as well as for the sealing of cavities, waterproofing pipe couplings, pipe and cable penetrations, joints in masonry, concrete and soils. The material is specifically used as waterproofing in permanently moist environments. In other cases protect from drying out.

#### Application

The application of the material is generally carried out with a two-component pump such as the KÖSTER Gel Pump.

KÖSTER Distributor Lances or KÖSTER Lamella Packers are recommended.

#### Area Injection

Holes are drilled into the construction member to be sealed to a depth of 2/3 of its thickness in a grid of max. 30 cm horizontally and vertically, every second row is offset. The diameter of the drill holes depends on the packers chosen. As packers, KÖSTER Injection Lances or KÖSTER Lamella Packers are recommended.

#### Expansion joints

Existing joints are cleaned out and are closed using suitable means prior to the injection. Along the course of the crack, holes are drilled on alternating sides of the crack at an angle of 45° to the surface at a max. distance of 50 cm from each other on each side. As packers, KÖSTER Injection Lances or KÖSTER Lamella Packers are recommended.

#### Consumption

Depends on the field of application.

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Area injection with a mixing ratio of 1:13	approx. 2 kg / m <sup>2</sup>
Expansion joints with a mixing ratio of 1:10	approx. 3 kg / liter

The mixing ratio is adjusted according to the amount of water in the material. The more water present, the less water is given to the mixing ratio. Changing mixing ratios during the course of injection are to be allowed for.

#### Cleaning

Clean tools immediately after use with KÖSTER PUR Cleaner.

#### Packaging

IN 285 002	2.5 kg jerrycan
IN 285 025	25 kg jerrycan
IN 285 210	210 kg drum

#### Storage

In originally sealed packages, the material can be stored for a minimum of 12 months.

#### Safety

Wear protective gloves and goggles when processing the material. When carrying out injection work, make sure to protect the surrounding work area from injection resin that may be discharged from the wall, packers, drill holes, etc. Do not stand directly behind the packers during injection. Adhere to all governmental, state, and local safety regulations when processing the material.

#### Related products

KÖSTER PUR Cleaner	Prod. code IN 900 010
KÖSTER Injection Lance	Prod. code IN 924 001
KÖSTER Distributor Lance	Prod. code IN 926 001
KÖSTER PUR Gel Pump	Prod. code IN 928 001

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 proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for 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 exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.