

KÖSTER KB-Pur® Gel

Technical guideline / Article number **6.12**

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- Industry classification "KB-Pur" registered at the German patent office, 395 06 701
- Official test certificate, Institute for Hygiene, Gelsenkirchen – KTW-recommendations of the commission „Drinking water concerns“
- Application-technical test certificate of the MPA Leipzig

Water activated polyurethane gel for curtain- and area-injections as well as for sealing of expansion joints

Features

KÖSTER KB-Pur® Gel is a solvent-free, water activated polyurethane gel. Depending on the amount of water added, a highly elastic, waterproof, massive or respectively foam-hydro-gel 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 and does not emit groundwater polluting substances. It was tested according to KTW-recommendations.

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

Field of application

KÖSTER KB-Pur® Gel is intended for the subsequent external sealing of areas with ground contact using curtain injection, for area injections in highly porous, jointed and cracked building materials as well as for the sealing of cavities, pipe couplings, pipe feedthroughs, and joints in masonry, concrete and soils.

Application

The application of the material is usually carried out with a two-component pump, e. g. the KÖSTER Gel Pump.

Curtain injection

Holes are drilled through the construction member to be sealed in a raster of max. 30 cm horizontally and vertically, every second row centrally offset. The diameter of the boreholes depends on the packers chosen. As packers, KÖSTER Injection Lances or Distributor Lances or KÖSTER Impact Packers 18 plus can be used.

Area injections

Holes are drilled into the construction member to be sealed to a depth of 2/3 of its thickness in a raster of max. 30 cm horizontally

and vertically, every second row centrally offset. The diameter of the boreholes depends on the packers chosen. As packers, KÖSTER Injection Lances or KÖSTER Impact Packers 18 plus can be used.

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 Impact Packers 18 Plus can be used.

Consumption

Area injections (at 1 : 13)	min. 2 kg KB-Pur® Gel / m ²
Curtain injections (at 1 : 10)	min. 3 kg KB-Pur® Gel / m ²
Expansion joints (at 1 : 4)	depending on the volume

Cleaning of tools

Immediately after use with KÖSTER KB-Pur® Cleaner. Reacted material can be treated with KÖSTER KB-Pur® Remover. (Do not use to clean the KÖSTER Gel Pump)

Packaging

210 kg barrel and 25 kg and 2.5 jerry can

Storage

In originally sealed packages, the material can be stored for approx. 12 month.

Safety

Wear protective gloves and goggles.

Technical guidelines cited

KÖSTER KB-Pur® Cleaner	Art. Nr.	9.10
KÖSTER KB-Pur® Remover	Art. Nr.	9.11
KÖSTER Impact Packer 18 plus	Art. Nr.	12.0642
KÖSTER Injection Lance	Art. Nr.	12.0652
KÖSTER Distributor Lance	Art. Nr.	12.0653

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