



KÖSTER IN 5

Technical Data Sheet IN 250

Issued: 2017-12-12

MPA Braunschweig, testing of physical characteristics according to the DIN EN 1504-5,

Elastic, low viscosity 2 component polyurethane injection resin for crack- and hose-injection

	KÖSTER BAUCHEMIE AG		
	Dieselstraße 1-10, 26607 Aurich		
	10		
	IN 250		
	EN 1504-5:2004		
0761	Concrete injection for the		
	elastic filing of cracks, voids,		
	and defects		
	U(D1)-W(3/5)-(1/2/3)-(8/30)		
Adhesion capacity	> 1.0 MPa		
Elongation capacity	> 30 %		
Water tightness	D1		
Glass transition temperature	NPD		
Injectability into dry medium	Injectability class: 0.3		
Injectability into non-dry medium	Injectability class: 0.3		
Durability	No failure during compressive		
	tests; loss of deformation		
	capability 6.7 %		
Corrosion behaviour	deemed to have no corrosive		
	effect		
Dangerous substances	NPD		
	l .		

Features

KÖSTER IN 5 is a solvent-free, low viscosity, 2 component polyurethane for permanently and elastically injecting, filling, and sealing cracks and construction joints.

KÖSTER IN 5 does not react aggressively when coming into contact with steel or iron, so that a corrosion protection is achieved. Due to its slow reaction, the material can be processed for up to 4 hours.

Technical Data

N	lixing	ratio	Comp.	A : B
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by volume	1:1
by weigh	t 1:1.2
Viscosity (25 °C)	
Comp. A	approx. 65 mPa.s
Comp. E	g approx. 90 mPa.s
Flashpoint	> 200 °C
Pot life (20 °C)	approx. 4 hours
Application temperature	above + 5 °C
Ideal application temperature	+ 15 °C

Fields of Application

The material is intended for the pressure injection of construction joints via injection hoses. It can also be used for permanently and elastically sealing dry, moist and water-bearing cracks and joints as well as for solidifying granular soils.

Application

The A and the B components are mixed in the given mixing ratio using a slowly rotating electrical mixer preferably equipped with a KÖSTER Resin Stirrer. The material must be mixed until it is streak free and

homogeneous in appearance. The minimum application temperature is \pm 5 °C. Ideally the material should be tempered to \pm 15 °C before mixing and injection, temperatures above \pm 25 °C will increase the reaction rate and reduce the pot life.

Crack injection

Active water leaks are stopped through injection with KÖSTER IN 1. The placement of the injection packers depends on the course of the crack. The drill holes are placed on alternating sides of the crack at a distance of approx. 10 to 20 cm from each other at an angle of 45° to the surface of the structural member. The diameter of the drill holes depends on the chosen injection packers. All customary resin injection devices are suitable.

Prior to injection, the crack is sealed with KÖSTER KB-Fix 5. The injection is carried out using a customary injection device such as the KÖSTER 1C Injection Pump, from bottom to top along the course of the crack. When using a single component injection pump, no moisture may come into contact with the injection material during the application. In cases of moist cracks and joints, material is injected until bubble-free material leaks from the crack or adjacent packers. Subsequent injections with KÖSTER IN 5 can only be carried out within the pot life of the material. After the removal of the injection packers, the drill holes can be closed with KÖSTER KB-Fix 5.

Hose injection

The injection hoses are installed in the middle of the wall in lengths of approximately 10 to 15 m. The minimum concrete cover must be 8 to 10 cm. The injection hoses must be in continuous contact with the concrete substrate. The sealing caps of the holder boxes must be flush with the surface of the formwork and remain accessible. No injection should take place within the first 28 days of the concrete being cast.

The injection is carried out using customary low pressure injection systems in conjunction with suitable injection ports, (packers). When using a single component pump, no moisture may come into contact with the injection material during the application.

The injection hose is filled until material comes out of the other hose end. That end of the hose is then sealed and material is injected until the gauge pressure on the injection pump remains constant. Subsequent injections with KÖSTER IN 5 can only be carried out within the pot life of 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.

Consumption

Approx. 1.1 kg / I void

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.

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KÖSTER IN 5



Cleaning

Clean tools immediately after use with KÖSTER PUR Cleaner.

Packaging

IN 250 010 10 kg combipackage IN 250 025 25 kg combipackage

Storage

Store the material at temperatures between + 10 °C and + 30 °C; in originally sealed containers it can be stored for 12 months.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local safety regulations when processing the material.

Related products

KÖSTER KB-FIX 5 Prod. code C 515

015

KÖSTER IN 1 Prod. code IN 110 KÖSTER PUR Cleaner Prod. code IN 900

010

KÖSTER Impact Packer 12 Prod. code IN 903

001

KÖSTER Superpacker 13 mm x 115 cm CH Prod. code IN 915

001

KÖSTER One-Day-Site Packer 13 mm x 120 mm Prod. code IN 922

PH 001

KÖSTER Hand Pump with manometer

KÖSTER 1C Injection Pump Prod. code IN 929

001

KÖSTER Hand Pump without manometer Prod. code IN 953 001

Prod. code IN 953

002

KÖSTER Footpump Prod. code IN 958

001

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