



## CUGLATON® INJECTIE EN 447



- CUGLATON INJECTIE EN 447 is a shrink-proof cement mortar, specially developed in according to NEN-EN 447 for grouting of cables in post-tensioned concrete and cable ducts.
- CUGLATON INJECTIE EN 447 has excellent flow properties, which makes the CUGLATON INJECTIE EN 447 ideal for pumping and injecting.
- CUGLATON INJECTIE EN 447 has a high stability, this ensures that CUGLATON INJECTIE EN 447 shown little to none bleeding.
- CUGLATON INJECTIE EN 447 has a very good workability at temperatures from 5 °C to 30 °C.

Classification according to EAD 160027-00-0301	
 749	
<b>CUGLA BV</b> , Rudonk 6a, 4824 AJ BREDA 20 BC1-566-445-20/0721-002 EAD 160027-00-0301 DoP: EM0018B-02-10-2023 Special Filling product for post-tension kits	
Homogeneity - Sieve test	No lumps
Fluidity (Cone method)	$t_0 \leq 25$ s $0,8*t_0 \leq t_{30} \leq 1,2*t_0$ en $t_{30} \leq 25$ s
Bleeding	Wick induced na 3 h $\leq 0,3$ % na 24 h $\leq 0,3$ %
	Inclined tube na 3 h $\leq 0,3$ % na 24 h $\leq 0,3$ %
Volume-change	Wick induced $\geq -1$ % $\leq 5$ %
Compressive strength	$\geq 30$ N/mm <sup>2</sup>
Setting time (start)	$\geq 3$ h
Setting time (end)	$\leq 24$ h
Sedimentation test	Sedimentation value R $\leq 10$ %

Classification according to NEN-EN 1504-6	
 0956	
<b>CUGLA BV</b> , Rudonk 6a, 4824 AJ BREDA 16 0956-CPR-0707 NEN-EN 1504-6 DoP: EM0018-02-10-2023 Anchoring grout	
Pull out strength	$\leq 0,6$ mm at load of 75 kN
Chloride ion content	$\leq 0,05$ %
Glass transition temperature	NPD
Reaction to fire	Class A1
Creep under tensile load displacement	NPD
Dangerous substances	Comply with 5.3

## Directions for use

### Preparation

Gains need to be cleaned and conditioned before filling.

### Mixing

Mechanical mixing in for example a colloidal mixer.

Mixing time approx. 2 – 3 minutes.

### Water dosage

Water bandwidth: 6,0 – 6,8 ltr/20 kg mortar. Dose, within the indicated water bandwidth, with plenty of water so as to produce a mortar with a flow of  $\leq 25$  s.

### Follow-up treatment

The finished surface must be carefully protected against dehydration with CUGLA CURING COMPOUND, or by covering with a plastic sheet.

### Storage and shelf life

If stored in a dry place it has a shelf life of up to 6 months after production date, as stated on the packaging.

## Technical data at 20°C/65% RH

<b>Maximum grain</b>			0,3	mm
<b>Cement</b>			Portland	
<b>Environment</b>			X0 t/m XA3	
<b>Processing temperature</b>			5 – 30	°C
<b>Water bandwidth</b>			6,0 – 6,8	ltr/20 kg mortel
<b>Consumption per m<sup>3</sup> approx.</b>			1480	kg
<b>Density</b>	EN 12350-6		2000	kg/m <sup>3</sup>
<b>Watercementfactor</b>			0,38	maximaal
<b>Viscosity - Flowcone</b>	EN 445	t = 0 min.	$\leq 25$	sec.
		t = 30 min.	$\leq 25$	sec.
<b>Setting time</b>	ASTM C827/87		60	minuten
<b>Swelling</b>	<b>Wick induced</b>	EN 445	$\geq -1 \leq 5$	%
<b>Bleeding</b>	<b>Wick induced</b>	EN 445	3 h	$\leq 0,3$
			24 h	$\leq 0,3$
	<b>Inclined tube</b>	EN 445	3 h	$\leq 0,3$
			24 h	$\leq 0,3$
<b>Pull out test</b>	EN 1881	Dry	0,6	mm
		Wet	0,6	mm

<b>Strength development (EN 196-1)</b>		<b>24 hours</b>	<b>7 days</b>	<b>28 days</b>
<b>Flexural strength</b>	N/mm <sup>2</sup>	3	4	5
<b>Compressive strength</b>	N/mm <sup>2</sup>	20	50	75

Cuglaton<sup>®</sup> does not contain any chloride, nor any other corrosive substances. For application at temperatures  $< 5$  °C please contact Cugla B.V.

## Health aspects

Cugla advises:

- To wear appropriate personal protective equipment (PPE).
- To avoid contact with eyes and skin.
- In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.
- In case of swallowing the product, immediately contact a doctor and show the package or the safety data sheet.

**For detailed information we refer to the safety data sheet, SDS Cuglaton Injectiemortel EN447, on our website.**

Changes to this document will not automatically be issued. Any previous product information hereby becomes null and void. The above data is provided to the best of our knowledge. The tests have been carried out under laboratory conditions. We will not accept any liability for the results achieved on the work, now that we have no influence on the process nor the specific conditions of the work.

Our general sales, delivery and payment conditions apply to all our transactions and are available at [www.cugla.com](http://www.cugla.com).