

CUGLATON® INJECTIE EN 447

- CUGLATON INJECTIE EN 447 is a shrink-proof cement mortar, specially developed in accordance with 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 shows little to no bleeding.
- CUGLATON INJECTIE EN 447 has a very good workability at temperatures from 5 °C to 30 °C.

Classification in accordance with EN 447 Grout for prestressing tendons



Fluidity	≤ 25 s
Bleeding	0,3%
Volume change	≥ -1 % ≤ 5 %
Strength development 7 days	≥ 27 N/mm ²
28 days	≥ 30 N/mm ²
Start of binding	≥ 3 h
End of binding	≤ 24 h

Classificatie volgens EN 1504-6

CE	
0956	
CUGLA BV , Rudonk 6a, 4824 AJ BREDA	
16	
0956-CPR-0707	
NEN-EN 1504-6	
DoP: EM0018-01-09-2018	
Anchoring grout	
Pull out strength	≤ 0,6 mm at load of 75 KN
Chloride ion content	≤ 0,05 %
Glass transition temperature	NPD
Reaction to fire	Class A
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 ≤ 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

Maximum grain	0,3	mm	
Cement	Portland		
Environment class	X0 t/m XA3		
Processing temperature	5 – 30	°C	
Water range	6,0 – 6,8	ltr/20 kg mortar	
Consumption per m³ approx.	1480	kg	
Density	2000	kg/m ³	
Water cement factor	0,42	max	
Viscosity - Flowcone	t = 0 min.	24	sec
	t = 30 min.	34	sec
Setting time	60	minutes	
Swelling v/v ASTM C827	0,24	%	
Bleeding	0,3	%	
Pull out test NEN-EN 1881	Dry	0,60	mm
	Wet	0,60	mm

Strength development		24 hours	7 days	28 days
Flexural strength	N/mm ²	3	4	5
Compressive strength	N/mm ²	11	50	67

Cuglaton[®] 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 the correct gloves and goggles.
- 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.