

CUGLATON® HOOGOVEN GIETMORTEL 1 MM

- CUGLATON HOOGOVEN GIETMORTEL 1 mm is a shrink-proof, low viscous mortar that fills all cavities and spaces based on blast-furnace cement.
- CUGLATON HOOGOVEN GIETMORTEL 1 mm is ideal for pumping
- CUGLATON HOOGOVEN GIETMORTEL 1 mm meets the sustainability requirement conform CUR Recommendation 89 'Measures to prevent damage to concrete by alkali-silica reaction (ASR)'.



Classification in accordance with CUR Recommendation 24

Non-Shrink mortar

Mortar sort		Grout
Mortar type		1 mm
Strength class	7 days	K 60
Exposure class		X0 t/m XA3
Swelling		> 0,1% < 2,0 %
Average shrinkage		< 0,70 mm/m

Cuglaton Hoogoven Gietmortel 1 mm is suitable for repair methods in accordance to NEN-EN 1504-3 table 1

- 4.4 Structural strengthening by adding mortar or concrete
- 7.1 Increasing cover to reinforcement with mortar or concrete
- 7.2 Replacing of contaminated or carbonated concrete

CE	
0956	
CUGLA BV Rudonk 6a 4824 AJ BREDA 20 0956-CPR-0707	
NEN-EN 1504-3	
DoP: EM0052-24-04-2020	
Concrete repair mortar based on cement for structural application	
Compressive strength	Class R4
Chloride ion content	≤ 0,05 %
Adhesive bond	≥ 2,0 MPa
Carbonation resistance	NPD
Elastic modulus	≥ 20 GPa
Thermal compatibility (freeze and thaw, 50 cycli with salt)	≥ 2,0 MPa
Capillary absorption	≤ 0,5 kg/(m ² *h ^{0,5})
Dangerous substances	Comply with 5.4
Reaction to fire	NPD

Directions for use

Pre-treatment

The surface onto which CUGLATON HOOGOVEN GIETMORTEL 1 mm has to be applied needs to be clean.

The cement skin coating should be removed and no free water may be present.

- Pre-treatment with water.
The surface must only be moistened with water (Please note: No free water!)
- or
- Pre-treatment CUGLACRETE HECHTPRIMER CEMENTGEBONDEN or CUGLACRETE HECHTPRIMER EPOXY SEALER.
For an optimum bond we advise the use of CUGLACRETE HECHTPRIMER CEMENTGEBONDEN, a cement polymer modified system, or CUGLACRETE HECHTPRIMER EPOXY SEALER, an epoxy-based system.

Mixing

Mechanically mix CUGLATON HOOGOVEN GIETMORTEL 1 mm until it becomes a homogeneous mixture.

Mixing time depends on the type of mixer, approx. 3 minutes.

Water dosage

Water bandwidth: 2,0 – 2,4 ltr/20 kg mortar. Dose, within the indicated water bandwidth, with plenty of water so as to produce a mortar with a flow of approx. 450 mm.

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.

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, to 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 Hoogoven Gietmortel 1 mm, on our website.

Cuglaton® does not contain any chlorine, nor any other corrosive substances. For application at temperatures < 0 °C please contact Cugla B.V.

Technical data at 20°C/65% RH

Property	Standard	Value	
Maximum grain	NEN-EN 12192-1	1,0	mm
Ground granulated blast furnace slag		> 50	%
Water bandwidth		2,0 – 2,4	ltr/20 kg
Exposure class	NEN-EN 206-1	X0 t/m XA3	
Layer thickness		50	mm max.
Density	NEN-EN 12190	2300	kg/m ³
Viscosity - Flowcone		t = 0 min > 450	mm
Setting time		20	minutes
Air content	NEN-EN 12350-7	3,0	%
Compressive strength	NEN-EN 12190		
		1 day 25	N/mm ²
		7 days 68	N/mm ²
		28 days 85	N/mm ²
Adhesive strength after freeze and thaw (50 cycles with salt)		28 days 3,8	N/mm ²
	NEN-EN 12687-1	2,8	N/mm ²
Elastic modulus	NEN-EN 13412	38900	N/mm ²
Carbonation resistance		< 0,60	mm
Capillary absorption	NEN-EN 13057	0,12	kg/(m ² *h ^{0,5})

Strength development ISO 679		16 hours	24 hours	7 days	28 days	91 days
Flexural strength	N/mm ²	2	3	10	11	13
Compressive strength	N/mm ²	10	25	68	85	95

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Our general sales, delivery and payment conditions apply to all our transactions and are available at www.cugla.com.