

CUGLATON® STELMORTEL K50

CUGLATON STELMORTEL K50 is a shrink-proof cement mortar with thixotropic properties specially developed for prefabricated construction.

Applications

Prefab construction	Erecting prefabricated concrete elements Placing prefabricated concrete elements in mortar beds
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Classification in accordance with CUR Recommendation 24 NON-SHRINK MORTARS



Mortar sort	Trowel mortar
Mortar type	2 mm
Strength class	K 50
Environment class	X0 t/m XA3
Swelling	> 0,1% < 2,0 %
Average shrinkage	< 0,60 mm/m

Directions for use

Pre-treatment

The surface onto which CUGLATON STELMORTEL K50 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 STELMORTEL K50 until it becomes a homogeneous mixture. Mixing time depends on the type of mixer, approx. 3 minutes.

Water dosage

Water bandwidth: 2,4 – 2,8 ltr/20 kg mortar. Dose, within the indicated water bandwidth, with plenty of water so as to produce a mortar with a flow of approx. 140 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.

Technical data at 20°C/65% RH

Maximum grain		2	mm
Cement sort		Portland	
Water bandwidth		2,4 – 2,8	ltr/20 kg mortar
Consumption per m³ approx.		1940	kg
Density		2200	kg/m ³
Layer thickness		80	mm max.
Flow measure	t = 0 min.	140	mm
Initial setting time		30	minutes
Swelling v/v ASTM C827		> 0,1 en < 2,0	%
Drying shrinkage NEN 3534	24 hours	< 0,2	mm/m
	28 days	< 0,9	mm/m
Bleeding		none	

Sterkteontwikkeling ISO 679		16 hours	24 hours	7 days	28 days	91 days
Tensil strength	N/mm ²	2	3	8	9	
Compressive strength	N/mm ²	23	40	68	75	85
Compressive strength (150x150x150 mm)	N/mm ²				76	

Cuglaton[®] does not contain any chlorine, nor any other corrosive substances. For application at temperatures < 0 °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, 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 Stelmortel K50, 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.