

CUGLATON® UHSM 1MM

- CUGLATON UHSM 1MM has been specially developed for constructions where high strength is required.
- Thanks to the optimum composition CUGLATON UHSM 1 MM is particularly suitable for use where, in addition to a high initial strength also a very high final strength (K100 / C110) is required.

Applications

Civil and public utilities / prefab construction	Grouting prefab concrete elements Casting gains
Industrial construction	Bonding heavily laden anchors
Concrete construction and hydraulic engineering	Bonding anchors Grouting supports

Classification MORTARS



Mortar sort		Grout
Mortar type		1 mm
Strength class	7 days	K100
Environment class		X0 t/m XA3
Shrinkage		< 0,50 mm/m

Directions for use

Pre-treatment

The surface onto which CUGLATON UHSM 1MM 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 UHSM 1MM until it becomes a homogeneous mixture. Mixing time depends on the type of mixer, approx. 5 minutes.

Water dosage

Water bandwidth: 2,2 – 2,6 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. 550 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		1	mm
Cement sort		Portland	
Water bandwidth		2,2 - 2,6	ltr/20 kg mortar
Consumption per m³ approx.		2040	kg
Voluminous mass		2300	kg/m ³
Layer thickness		50	mm max.
Flow measure EN 13395-2	t = 0 min.	>550	mm
	t = 30 min.	>450	mm
Initial setting time		30	minutes
Shrinkage EN 12617-4	24 hours	< 0,3	mm/m
	28 days	< 0,8	mm/m
Pull out test EN 1881	Dry	0,40	mm
	Wet	0,20	mm

Strength development EN 196-1

Temperature		Test piece (mm)	24 hours	7 days	28 days	91 days
20 °C	N/mm ²	160*40*40	≥ 70	≥ 105	≥ 130	≥ 135
5 °C	N/mm ²	160*40*40	≥ 15	≥ 95	≥ 115	≥ 125

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 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.

Safety data sheets, SDS, are available via our website www.cugla.com.