

CUGLATON® UHSM 5MM

- CUGLATON UHSM 5MM has been specially developed for constructions where high strength is required.
- Thanks to the optimum composition CUGLATON UHSM 15MM 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		5 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 5MM 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 5MM until it becomes a homogeneous mixture. Mixing time depends on the type of mixer, approx. 5 minutes.

Water dosage

Water bandwidth: 1,6 – 2,0 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. 650 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 12 months after production date, as stated on the packaging.

Technical data at 20°C/65% RH

Maximum grain			5	mm
Cement sort			Portland	
Water bandwidth			1,6 – 2,0	ltr/20 kg mortar
Consumption per m³ approx.			2100	kg
Density	EN 12350-6		2300	kg/m ³
Layer thickness			300	mm max.
Flow measure	EN 13395-2	t = 0 min.	>650	mm
	EN 13395-2	t = 30 min.	>600	mm
Initial setting time	ASTM C827/87		30	minutes
Shrinkage	EN 12390-16	24 hours	< 0,3	mm/m
		28 days	< 0,8	mm/m
Pull out test	EN 12617-4	Dry	0,40	mm
		Wet	0,20	mm
E-modules	EN 13412		43.000	N/mm ²

Strength development EN 12390-3

Temperature		24 hours	7 days	28days
20 °C	N/mm ²	90	105	120
10 °C	N/mm ²	38	100	
5 °C	N/mm ²	15	95	
0 °C	N/mm ²	3		

Cuglaton® does not contain any chloride, 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.

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.