

## CUGLA® Versneller HA-20 CON. 50% VS

Admixture in accordance with NEN-EN 934-2



0956-CPR-1501

CUGLA VERSNELLER HA-20 is a chloride free hardening accelerating admixture for concrete. According to the definition of a hardening accelerating admixture the strength development until 24 h will be increased. The hardening accelerating admixture has no influence on the strength development after 24 h.

CUGLA VERSNELLER HA-20 acts as a catalyst for cement at the beginning of the hydration reaction. De hardening is accelerated and the mechanical strength raises quickly.

CUGLA VERSNELLER HA-20 can be used in combination with the (super-)plasticizers from CUGLA BV.

CUGLA VERSNELLER HA-20 is compatible with as well Portland-based as Blastfurnace-based cement.

CUGLA VERSNELLER HA-20 can be used :

- To achieve a significant increase of the compressive strength till 24 h.
- To increase of the strength development at low temperature.
- In the cold forming.
- To increase the capacity of production in the prefab industry.

### Benefits of use

CUGLA VERSNELLER HA-20 is a chloride free hardening accelerating admixture suitable for application in non-reinforced, reinforced and prestressed concrete.

CUGLA VERSNELLER HA-20 can be used for the casting of concrete at low temperatures, and also in systems which need a fast demoulding to increase the efficiency of the production capacity.

### Product properties

<b>Product name</b>	CUGLA VERSNELLER HA-20			
<b>Category</b>	Hardening accelerator			
<b>Manufacturer/supplier</b>	CUGLA			
<b>Colour code</b>	Green			
<b>Active component</b>	Solution of nitrates			
<b>Physical state</b>	Fluid			
<b>Colour</b>	Transparent			
<b>Soluble in water</b>	Yes			
<b>Concentration</b>	%	50		
<b>pH</b>		5 - 8		
<b>Absolute density</b>	kg/l	1,36 ± 0,03		
<b>Dry material content</b>	%	50 ± 2,5		
<b>Total chlorine</b>	%	< 0,1		
<b>Water soluble chlorine</b>	%	< 0,1		
<b>Alkaline content</b>	%	0,5		

## Use and dosage instructions

<b>Manner / moment of dosage</b>	Preferably add to the last part of the mixing water
<b>Recommended dosage</b>	0,2 – 3,0 % with regard to cement weight
<b>Recommended maximum dosage</b>	3,0% with regard to cement weight (2220 cc per 100 kg cement)
<b>Processing temperature</b>	> 1 °C
<b>Shelf life and storage</b>	Up to 1 year after manufacturing date in sealed package, frost-free, >5°C
<b>Suitable for use in</b>	Non-reinforced concrete Reinforced concrete Pre-stressed concrete
<b>Not compatible with</b>	Aluminium cement: only in consultation with CUGLA Other admixtures: only in consultation with CUGLA

## Packaging

In cans of 20 kg, barrels of 200 kg or containers of 1000 kg.

## Health and environmental aspects

Cugla recommends that when using Cugla admixtures:

- Should the product come in contact with eyes, rinse immediately with water and seek medical advice.
- Should the product come in contact with skin, wash immediately with soap and water.
- Should you feel ill, consult a doctor, showing him/her this sheet or the safety information sheet.

**For detailed information we refer to the safety data sheet, SDS Cugla Versneller HA-20 con.50% VS, 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](http://www.cugla.com).