

UGLA® Versneller HA-60 CON. 20% VS

Admixture in accordance with NEN-EN 934-2



0956-CPR-1501

UGLA VERSNELLER HA-60 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.

UGLA VERSNELLER HA-60 acts as a catalyst for cement at the beginning of the hydration reaction. De hardening is accelerated and the mechanical strength raises quickly.

UGLA VERSNELLER HA-60 can be used in combination with the (super-)plasticizers from CUGLA BV.

UGLA VERSNELLER HA-60 is compatible with as well Portland-based as Blastfurnace-based cement.

UGLA VERSNELLER HA-60 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

UGLA VERSNELLER HA-60 is a chloride free hardening accelerating admixture suitable for application in non-reinforced, reinforced and prestressed concrete.

UGLA VERSNELLER HA-60 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.

Certificering/beproeving

UGLA VERSNELLER HA-60 is a hardening accelerator for concrete conform NEN-EN 934-2: T7, tested of effect on corrosion susceptibility according of NEN-EN 480-14, maximum current density 0,36 $\mu\text{A}/\text{cm}^2$ (1 h) and 0,07 $\mu\text{A}/\text{cm}^2$ (24 h) according to EN 934-1: 2008.

UGLA VERSNELLER HA-60 is allowed for use in non-reinforced concrete, reinforced concrete and pre-stressed concrete by Deutsches Institut für Bautechnik (DIBt) (Zulassungsnummer: Z-3.25-2152)

Product properties

Product name	CUGLA VERSNELLER HA-60 VS			
Category	Hardening accelerator			
Manufacturer/supplier	CUGLA			
Colour code	Green			
Active component	Anorganic salts, contains max. 10 % Nitrates			
Physical state	Fluid			
Colour	Yellow			
Soluble in water	Suspension			
Concentration	%	20		
pH		10 - 14		
Absolute density	kg/l	1,10 ± 0,03		
Dry material content	%	20 ± 1,0		
Total chlorine	%	< 0,1		
Water soluble chlorine	%	< 0,1		
Alkaline content	%	3,0		

Use and dosage instructions

Manner / moment of dosage	Preferably add to the last part of the mixing water
Recommended dosage	0,1 - 2,0 % with regard to cement weight
Recommended maximum dosage	2% with regard to cement weight (1818 cc per 100 kg cement)
Processing temperature	> 1 °C
Shelf life and storage	Up to 1 year after manufacturing date in sealed package, frost-free, >5°C
Suitable for use in	Non-reinforced concrete Reinforced concrete Pre-stressed concrete
Not compatible with	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-60 con.20% 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.