

CUGLA® HR-81 CON. 35%* SPL

*Also available in concentration: 25%

Admixture in accordance with NEN-EN 934-2



0956-CPR-1501

CUGLA HR-81 is the result of the development of a new generation of super plasticizer based on polycarboxylates.

CUGLA HR-81 gives concrete mortar a unique combination of properties, namely:

- Very high workability for 60 minutes
- Higher initial and final strengths due to the prevention of micro-bleeding
- Optimal density

This makes CUGLA HR-81 ideal for the following applications:

- High Strength Concrete
- Self Compacting Concrete

Advantages

Workability	The strong plasticizing effect can give concrete mortar with a very low water-cement factor a plastic and long workability. With a modified mixture composition it is possible to produce a highly stable self-compacting concrete mortar.
Strength	High initial and final strength.
Durability	Watertight concrete, environment class XA3.
Cement savings	Standard compositions can be produced with considerably less cement.
Compaction	Production of self-compacting concrete mortar is possible without the segregation of the concrete mortar.

Product properties

Product name	CUGLA HR-81 SPL			
Category	Superplasticizing admixture			
Manufacturer/supplier	CUGLA			
Colour code	Grey			
Effective component	Modified poly carboxylate ether			
Physical state	Liquid			
Colour	Brown			
Soluble in water	Yes			
Concentration	%	25	35	
pH		2 – 8	2 – 8	
Absolute density	kg/l	1,05 ± 0,02	1,08 ± 0,02	
Dry material content	%	25 ± 1,25	35 ± 1,75	
Total chlorine	%	< 0,1	< 0,1	
Water soluble chlorine	%	< 0,1	< 0,1	
Alkali content	%	1,5	1,5	

Use and dosage instructions

Manner / moment of dosage	Preferably add to the last part of the mixing water			
Recommended dosage	Depending on the desired consistency of the concrete			
Processing temperature	5 - 30 °C			
Shelf life and storage	Up to 1 year after manufacturing date, frost-free			
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			
Concentration	%	25	35	
Maximum recommended dosage	% in regard to cement	1,20	0,85	
	cc per 100 kg cement	1143	787	
	For dosage higher than the maximum recommended dosage, please contact the Cugla Product Manager for advice			

Packaging

In cans, barrels, containers and/or bulk

Health and environmental factors

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 HR-81 SPL, 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.