

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-315 SL

### HIGH PERFORMANCE SUPERPLASTICISER WITH LONG WORKABILITY RETENTION PROPERTIES

#### DESCRIPTION

Sika® ViscoCrete® 315 SL is a highly effective super-plasticizer with set retarding, long slump retention and mix stabilizing properties. The product meets the requirements of EN 934-2 and ASTM C 494 Type G.

#### USES

In shotcrete mixes Sika® ViscoCrete® 315SL is used in wet spray technology in combination with various Sigunit® accelerators. In conventional concrete mixes, Sika® ViscoCrete® -315SL is used where long slump retention is required in difficult situations like hot climates or poorly shaped coarse and fine aggregates etc.

Sika® ViscoCrete® 315 SL can be used with:

- Fine aggregates and sand Crush rock fine/quarry dust
- Shotcrete and conventional mixes containing Silica Fume or Metakaolin With the use of Sika® ViscoCrete® 315 SL, shotcrete and conventional concrete is retarded and stabilized and can be kept without loss of workability in a transit mixer for more than 5 hours to suit long transit times and conditions in difficult and remote sites like long tunnels, mines etc.. Sika® ViscoCrete® SC-315 SL improved shotcrete and conventional concrete has a long open time and workability, resulting in reduced pump pressure. The combination of Sika® ViscoCrete® 315 SL and Sigunit® accelerators greatly increase the early strength development of the concrete.

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® 315 SL strongly plasticizes fresh concrete and allows for a high reduction of the water: cement ratio without negatively influencing the workability of the original concrete mix design. At the same time, cement hydration is retarded for a certain time. Dependent on the dosage, fresh concrete remains stable and retarded for a pre determined time, thus maintaining its workability. Stabilised shotcrete can then be accelerated with sigunit accelerators at any time without loss of quality. The retardation and retention of workability effects are of course also strongly dependent on the:

- Extremely powerful water reduction, resulting in high density, high strength and reduced permeability for water, etc.
- Excellent plasticising effect, resulting in improved flowability, placing and compacting behaviour
- Especially suitable for the production of SCC
- Improved shrinkage and creep behaviour

Sika® ViscoCrete® 315 SL does not contain chlorides or any other steel corrosion promoting ingredients

#### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of modified polycarboxylates
<b>Packaging</b>	1000L IBC
<b>Appearance / Colour</b>	Off white liquid
<b>Shelf life</b>	12 months if stored properly in original unopened packaging.

<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5°C and +40°C.
<b>Density</b>	1.09 ± 0.02 kg/litre.(at 25 °C)
<b>pH-Value</b>	5 ± 1 (at 25 °C)

## APPLICATION INFORMATION

<b>Recommended dosage</b>	0.5 - 2.0 ltr per 100 kg of cement
<b>Compatibility</b>	Sika® ViscoCrete® 315 SL may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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