

PRODUCT DATA SHEET

Sika® ViscoCrete®-316 LK

HIGH PERFORMANCE SUPERPLASTICISER WITH SLUMP RETENTION

DESCRIPTION

Sika® ViscoCrete®-316 LK is a third generation polymer based high performance superplasticiser for producing soft consistency concrete and mortar. Sika® ViscoCrete®-316 LK meets the requirements of BSEN 934-2 and ASTM C 494 Type G

USES

Sika® ViscoCrete®-316 LK is a unique multi purpose superplasticiser that is particularly suitable for the production of ready mixed concrete and site batch concrete. It provides ultra high water reduction and excellent flow characteristics. With its outstanding combination of workability time and early strength development Sika® ViscoCrete®- 316 LK is used for the following:

- Concrete with ultra high water reduction
- High performance concretes
- Long slump retention
- Shotcrete application wet process
- Self Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®- 316 LK is a powerful superplasticiser based on advanced technology which gives the following advantages:

- High water reduction, resulting in high density, high strength and reduced permeability
 - Extended workability in conjunction with subsequent fast strength development
 - Excellent plasticising effect, resulting in improved flow, placing and compaction characteristics
 - Reduced shrinkage during curing and reduced creep when hardened
 - Provides many opportunities for cost improvement, e.g.cement reduction and more economic mix design
- Sika® ViscoCrete®-316 LK does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

Composition	Modified polycarboxylate
Packaging	1000 L IBC
Appearance / Colour	Liquid / brownish colour
Shelf life	12 months from date of production if stored properly in original unopened packaging
Storage conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +40 °C. Protect from direct sunlight and frost.
Density	1.08 - 1.12 kg/l (at +25 °C)
pH-Value	5.2 - 7.2 (at +25 °C)

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TECHNICAL INFORMATION

Concreting guidance	Concrete placing: With the use of SikaViscocrete®-316 LK , concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing vibrating and curing must be respected and applied. Curing: Effective measures for concrete curing must be followed.
Specific advice	SikaViscocrete®-316 LK is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilization of the ultra-high range water reducer we recommend a minimum wet mixing time of 60 seconds. When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

APPLICATION INFORMATION

Recommended dosage	0.5 – 2 L per 100 kg of cement Typical 0.8 – 1.2 L per 100 kg
Compatibility	Sika® ViscoCrete®-316 LK 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 recommenda-

tions. 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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Sri Lanka



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