

PRODUCT DATA SHEET

Sika® ViscoCrete®-5001 LC3

High-Range water reducer for concrete containing LC3 cement, metakaolin or calcined clay

DESCRIPTION

Sika® ViscoCrete®-5001 LC3 is an advanced high-range water reducing admixture (HWR according to AS1478.1) designed for concrete formulated with LC3 cement or metakaolin or calcined clay.

USES

- General concrete and high-strength concrete with LC3 cement
- Decorative and precast concrete containing metakaolin in the binder
- Concrete with calcined clay as a supplementary cementitious material
- LC3 cement concrete precast segments and panels.

FEATURES

Sika® ViscoCrete®-5001 LC3 works based on a combination of electrostatic adsorption and steric repulsion effects.

Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water. As a result, Sika® ViscoCrete®-5001 LC3 can provide higher workability time and stability than conventional dispersants in a LC3 concrete.

Sika® ViscoCrete®-5001 LC3 can provide better 1-day and 2-day compressive strength in a LC3 concrete in comparison with an ordinary superplasticizer.

Sika® ViscoCrete®-5001 LC3 improves the workability of a concrete using a LC3 cement compared to the usage of an ordinary superplasticizer.

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete®-5001 LC3 meets the requirements for AS1478.1 HWR type (test in Portland GP cement).

PRODUCT INFORMATION

Packaging	▪ bulk delivery ▪ 1000 liters IBC
Appearance and colour	Clear to light-brown liquid
Shelf life	Stored at temperature between 5°C and 35°C, in unopened original containers protected from direct sunlight and frost, shelf life is 12 months.
Storage conditions	Store Sika® ViscoCrete®-5001 LC3 at temperature between 5°C and 35 °C, protected from direct sunlight.
Density	1.07 kg/l at 23 °C approximately
Recommended dosage	Typical dosage for general concrete production is between 400 to 1800 ml/100 kg of total binder content. Optimum dosage depends on site conditions, mix ingredients, and desired plastic and hardened concrete properties. Laboratory and field trials shall be conducted to determine the required

Compatibility

Sika® ViscoCrete®-5001 LC3 can be used in conjunction with Sika Visco-Flow® and the Sika set retarding admixtures.

BASIS OF PRODUCT DATA

All technical data stated in this Product 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.

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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Product Data Sheet

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