



PRODUCT DATA SHEET

SikaControl®-75

SHRINKAGE REDUCING ADMIXTURE

PRODUCT DESCRIPTION

SikaControl®-75 is a shrinkage-reducing admixture used to produce high-performance concrete with greatly reduced drying shrinkage.

WHERE TO USE

- *In situ* concrete floors, to reduce shrinkage-cracking for the same joint spacing, or to increase joint spacing without increasing the risk of shrinkage cracking
- In thin bonded topping slabs, to minimize the difference in shrinkage between the new topping and the existing substrate
- In concrete elements which are restrained against shrinkage
- For durable concrete in marine environments
- For watertight concrete in reservoirs, sewage treatment plants, and dams

CHARACTERISTICS / ADVANTAGES

- Greatly reduced drying shrinkage and drying shrinkage cracking
- Reduces the potential for slab curling
- Substantially improved permeability, resulting in improved concrete durability

ENVIRONMENTAL INFORMATION

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations (Product-specific, Type III EPD)

APPROVALS / CERTIFICATES

Meets the requirements of ASTM C494, Type S

PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	20 L (5.3 US gal.) pail 205 L (55 US gal.) drum 1040 L (275 US gal.) IBC Bulk delivery
Appearance / Colour	Liquid / Clear Orange
Shelf Life	1 year when stored in dry warehouse conditions at temperatures ranging between +10 °C and +27 °C (50 °F and 80 °F).
Storage Conditions	Store at temperatures above +5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state.
Specific Gravity	Approx. 1.0

APPLICATION INFORMATION

Recommended Dosage

Dosage rates will vary according to materials used, ambient conditions and the requirements of the specific project. Sika recommends dosage of 520-1950 mL/100 kg of cementitious material for general concrete applications. Dosage rates outside the recommended range may be used when unusual project conditions require special consideration. In this case, contact your Sika Canada Technical Sales Representative for further information. Laboratory tests show that, at a dosage of 1950 mL/100 kg of SikaControl®-75, shrinkage over the long term can be reduced by as much as 40 %. However, the amount of shrinkage reduction is dependent on the mix design and the components of the concrete. The gauging water should be reduced to compensate for the SikaControl®-75 which is added. In fact, it is recommended that for each litre of SikaControl®-75 added to the mix, the gauging water be reduced by one (1) litre. When using SikaControl®-75, lab and field tests are always recommended to verify the performance and handling characteristics of the specified concrete mix.

Compatibility

SikaControl®-75 is highly effective as a single admixture or in combination with other Sika® admixtures.

Mixing

Mixing / Dispensing

The required dosage of SikaControl®-75 should be added to the concrete at the batching plant, with the gauging water or poured into the concrete simultaneously with it. It may also be added in the ready-mix truck at the point of discharge, but an additional mixing time of five (5) minutes is required and the concrete should be visually checked for uniform consistency.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

- Do not premix SikaControl®-75 with other admixtures
- SikaControl®-75 will reduce drying shrinkage. It will not, however, eliminate cracking. The reduction of cracking is dependent upon good engineering design that allows for concrete shrinkage by incorporating well-designed and properly-located shrinkage control joints.
- It is essential to protect the concrete from water evaporation during the crucial early age period. We

recommend the use of SikaFilm® evaporation retardant and curing compounds for this purpose. Refer to the respective product data sheets for more information.

- When SikaControl®-75 is used for the production of air-entrained concrete, a lower dosage of the air-entraining admixtures may be required.
- SikaControl®-75 may cause retardation when used during cold weather concreting. This effect can be reduced by adding Sika® Rapid-1 or other accelerating admixture.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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