

PRODUCT DATA SHEET

SikaControl®-50

SHRINKAGE REDUCING ADMIXTURE

PRODUCT DESCRIPTION

SikaControl®-50 is a shrinkage reducing admixture used to produce high performance concrete with greatly reduced drying shrinkage.

USES

SikaControl®-50 can be used in any type of cast-in-place or precast/prestressed concrete, grouts, mortars or any other cementitious mixes. Some of the applications of SikaControl®-50 may include:

- Concrete floors, to compensate for drying and autogenous shrinkage, cracking, control curling and increase joint spacing.
- Utilized in topping slabs to minimize cracking.
- For durable concrete in marine environments.
- For watertight concrete in reservoirs, sewage treatment plants and dams.
- Minimize shrinkage in heavily restrained structures.

CHARACTERISTICS / ADVANTAGES

- Greatly reduced cracking potential related to drying and autogenous shrinkage.
- Reduced curling and increased joint spacing.
- Substantially improved impermeability, resulting in improved concrete durability and life cycle.

SikaControl®-50 does not contain intentionally added chlorides.

PRODUCT INFORMATION

Packaging	SikaControl®-50 is available in 55 gallon drums (208 liters), 275 gallon totes (1040 liters) and bulk supply.
Appearance / Color	Colorless Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from date of manufacture.
Storage Conditions	SikaControl®-50 should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Specific gravity	Approx. 0.996

Recommended Dosage

The typical dosage range of SikaControl®-50 is 8-30 fluid ounces per 100 lbs. (502-1950 ml / 100 kg) of cementitious for general concrete applications.

To the extent specialized materials (such as microsilica) are specified, extreme ambient project conditions are encountered, or other unusual project conditions require special consideration outside the recommended dosage, please contact your local regional Sika office or Sika technical service department at 1-800-933-7452 prior to using the Sika admixture.

Mixing

Measure the required quantity manually or by automated dispenser. Add SikaControl®-50 directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do not mix with dry cement. SikaControl®-50 may be dispensed on site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.

For use in air entrained concrete, the dosage of the air entrainment admixture may need to be adjusted. Conduct trial mixes to evaluate and confirm air entrainment admixture dosages, as well as concrete properties prior to production use.

Compatibility:

SikaControl®-50 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

Important Notes

- SikaControl®-50 will reduce drying shrinkage. It will not eliminate cracking. The reduction of cracking is dependent on 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 technical data sheets for information.
- SikaControl®-50 may cause retardation when used during cold weather concreting. This effect can be reduced by adding set accelerating or hardening admixtures.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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Product Data Sheet

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