

## PRODUCT DATA SHEET

# SikaControl<sup>®</sup>-220

### Shrinkage Reducing Admixture

#### PRODUCT DESCRIPTION

SikaControl<sup>®</sup>-220 is a unique, non-chloride based chemical admixture that has been specifically designed to reduce concrete drying shrinkage. SikaControl<sup>®</sup>-220 does not contain any chemical ingredients that will cause expansion of concrete. SikaControl<sup>®</sup>-220 reduces concrete shrinkage when tested against a plain reference mix. SikaControl<sup>®</sup>-220 conforms to the requirement of ASTM C 494 / AASHTO M 194, Type S admixture.

#### USES

SikaControl<sup>®</sup>-220 is designed for the following applications:

- Concrete floors
- Concrete elements which are restrained against shrinkage
- Concrete in marine environments
- Watertight concrete in reservoirs, sewage treatment plants, and dams

#### CHARACTERISTICS / ADVANTAGES

- Reduces drying shrinkage & resulting cracking
- Reduces drying shrinkage cracking
- Can be used in air entrained or non-air entrained concrete
- Reduces the potential for slab curling
- Improves concrete durability

#### PRODUCT INFORMATION

<b>Packaging</b>	SikaControl <sup>®</sup> -220 is available in 55 gallon drums (208 liters), 275 gallon (1040 liters) totes and bulk supply.
<b>Appearance / Color</b>	Clear to Light Yellow
<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions between 40 °F and 80 °F (5–27 °C) is 6 months from the date of manufacture. Protect from frost and direct sunlight.
<b>Storage Conditions</b>	SikaControl <sup>®</sup> -220 should be stored above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to normal state.
<b>Specific Gravity</b>	Approx. 1.01

## APPLICATION INFORMATION

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### Recommended Dosage

Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage at 8–40 fl. oz. per 100 lbs. (0.52–2.61 L/100 kg) of cementitious for general concrete applications.

Dosage rates outside the recommended range may be used when project conditions require special consideration. In this case, Please contact your local Sika Representative or Sika Technical Service Department 1-800-933-7452 for more information and assistance.

Laboratory tests shows that SikaControl®-220, can reduces long term shrinkage by as much as 40 %. However, the amount of shrinkage reduction is dependent on the mix design, concrete components, and curing regime. When using SikaControl®-220, lab and field tests are always recommended to verify the performance and handling characteristics of the specified concrete mix.

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### Mixing

The required dosage of SikaControl®-220 should be added to the concrete at the batching plant, with the mixing water. It may also be added in the transit mixer at the point of discharge, but an additional mixing time of 5 minutes is required and the concrete should be visually checked for uniform consistency.

**Combination with Other Admixtures:** SikaControl®-220 is highly effective as a single admixture or in combination with other Sika admixtures. Do not premix with other admixtures.

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## 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.

any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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

## 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](http://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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