

# PRODUCT DATA SHEET

## SikaControl® NS

### SHRINKAGE REDUCING AND COMPENSATING ADMIXTURE

#### PRODUCT DESCRIPTION

SikaControl® NS is a shrinkage reducing/compensating admixture used to produce high performance concrete with reduced potential for drying shrinkage cracking and curling. SikaControl® NS meets the requirements of ASTM C-494 Type S.

#### USES

SikaControl® NS 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® NS may include:

- Concrete floors, to compensate for drying shrinkage cracking, control curling and increase joint spacing.
- 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 bridge decks and parking structures.
- For durable concrete in marine environments.
- For watertight concrete in reservoirs, sewage treatment plants, and dams.

#### 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.

#### PRODUCT INFORMATION

<b>Packaging</b>	SikaControl® NS is available in 25 lb (11.34 kg) bags and 2,000 lb (907 kg) super sacks.
<b>Appearance / Color</b>	Powder, Off-White Tan
<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions is 12 months.

**Storage Conditions**

SikaControl® NS should always be stored in a dry environment. Exposed, unprotected material will absorb moisture and carbon dioxide from the air resulting in reduced product performance.

**Specific Gravity**

Approximately 2.71

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**APPLICATION INFORMATION**

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**Recommended Dosage**

The recommended dosage range for SikaControl® NS is from 2–7 % by wt. of cement mass for concrete, mortars or grouts. SikaControl® NS at 5 % dosage rate has shown significant reduction in shrinkage cracking in independent lab testing.

When trial mixes are performed for mix approval, ensure that all materials used are representative of the materials used during actual production.

**Mixing**

SikaControl® NS can be added to the concrete either along with the other powder components or after all the other ingredients are added to the concrete mixer or truck. If it is added after all the other ingredients, adequate mixing should be ensured. The 25 lb repulpable bags are designed to disintegrate through a combination of wetting and grinding the paper during concrete mixing.

To maximize product performance proper curing practices should be followed as per ACI 308 or project specifications.

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**LIMITATIONS**

Limitations: Do not introduce repulpable bags into concrete mixes with low water-cementitious ratios and smaller size aggregates as these mixes may not develop sufficient mixing energy to fully repulp the bags. Always determine repulpability of bags by pretesting mix designs and batch sequence.

**Combination with SCM's and Other Admixtures:**

- SikaControl® NS is compatible with commonly used SCM's and other Sika admixtures.
- Do not pre-mix with other admixtures.

**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.

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

**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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