

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 C494 / AASHTO M194 Type S and is NSF/ANSI Standard 61 certified.

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 and autogenous shrinkage, cracking, control curling and increase joint spacing.
- Utilized in topping slabs to minimize cracking.
- For bridge decks and parking structures.
- For durable concrete in marine environments.
- For watertight concrete in reservoirs, sewage treatment plants, and dams.
- For low shrink grout applications.
- 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® NS does not contain intentionally added chlorides.

PRODUCT INFORMATION

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

APPLICATION INFORMATION

Recommended Dosage

The recommended dosage range for SikaControl® NS is from 2–7 % by wt. of cement mass for concrete, mortars or grouts.

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

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.

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.

Compatibility:

SikaControl® NS 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.

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 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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