

PRODUCT DATA SHEET

SikaControl®-312 SE

STRENGTH ENHANCING ADMIXTURE

PRODUCT DESCRIPTION

SikaControl®-312 SE is a first generation strength enhancing and water reducing admixture used to improve the strength development of concrete. SikaControl®-312 SE meets the requirements of ASTM C494/AASHTO M 194, Type A & S.

USES

SikaControl®-312 SE is designed for use in ready mix, precast/prestressed and drycast concrete applications whenever increased strengths or the reduction of cementitious materials are desired. SikaControl®-312 SE can be used in the production of SCC (Self-Consolidating Concrete), UHPC (Ultra-High Performance Concrete) as well as for production of conventional slump concrete and is effective in concrete containing Portland Limestone Cement (PLC/Type IL) and supplementary cementitious materials.

CHARACTERISTICS / ADVANTAGES

SikaControl®-312 SE improves strength development at an equal or reduced cement or cementitious content.

SikaControl®-312 SE also provides the following benefits:

- Potential for greater replacement of SCMs,
- Improved cement hydration,
- Improved workability and slump retention,
- Minimal effect on setting characteristics,
- Improved finishing characteristics,
- Improved strength development at all ages allows for faster structural use of concrete,
- Increased early strengths allow faster demolding and more efficient use of forms for precast producers,
- Minimized impact of inconsistencies related to raw materials by increasing strength.

SikaControl®-312 SE does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Helps reduce Global Warming Potential (GWP) of concrete through reduction in cementitious materials. May be used in conjunction with other methods to further decrease the embodied carbon of concrete.

For further information, please visit:
<https://usa.sika.com/en/sustainability.html>

PRODUCT INFORMATION

Packaging	Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
Appearance / Color	Pale Green Liquid
Shelf Life	Shelf life when stored in original packaging in dry warehouses conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture.
Storage Conditions	SikaControl®-312 SE should be stored above 20°F (-7°C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Specific gravity	Approx. 1.252

APPLICATION INFORMATION

Recommended Dosage	<p>The typical dosage rate of SikaControl®-312 SE will vary between 2-16 fl oz / 100 lb. (130-1045 mL / 100 kg) of cement or cementitious materials. For certain applications, higher dosage rates may be required. Various factors will affect the dosage rates.</p> <p>Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.</p> <p>To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. For dosage rates outside the typical range, please contact your local Sika representative or the Sika Technical Services Department at 1-800-933-7452.</p>
Mixing	<p>Measure the required quantity manually or by automated dispenser. Add SikaControl®-312 SE directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. SikaControl®-312 SE 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.</p> <p>Compatibility: SikaControl®-312 SE can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.</p>

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.

Always perform test batches to establish mix design and mix properties and performance prior to use.

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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