

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 is formulated to meet the requirements of ASTM C494/AASHTO M 194, Type S.

WHERE TO USE

SikaControl®-312 SE is designed for use in ready mix, precast/prestressed and drycast concrete applications. SikaControl®-312 SE can be used for production of SCC (Self-Consolidating Concrete), UHPC (Ultra-High Performance Concrete) as well as for production of conventional slump concrete. It is effective in concrete containing Portland Limestone Cement (Type -L) 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.

APPROVALS / CERTIFICATES

SikaControl®-312 SE is formulated to meet the requirements of ASTM C494/AASHTO M 194 Type S

PRODUCT INFORMATION

Packaging	Available in 205-litre drums, 1040-litre totes and bulk delivery.
Appearance / Colour	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
CSC MasterFormat®	03 05 00

APPLICATION INFORMATION

Recommended Dosage	The typical dosage rate of SikaControl®-312 SE will vary between 130-1045 mL / 100 kg of cement or cementitious materials. Various factors will affect the dosage rates. For dosage rates outside of the typical range, please contact your local regional Sika office or Sika technical service department. It is recommended to conduct trial mixes with the actual materials to determine the required dosage for optimum performance. 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 Representative prior to using the Sika admixture.
Mixing	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. 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.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

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

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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