

PRODUCT DATA SHEET

SikaFume®-290 CS

COLLOIDAL SILICA SOLUTION

PRODUCT DESCRIPTION

SikaFume®-290 CS is an internally applied liquid colloidal silica based admixture for concrete. SikaFume®-290 CS meets the requirements of ASTM C494/AASHTO M 194, Type S.

USES

SikaFume®-290 CS is effective in concrete containing Portland Limestone Cement (PLC/Type IL) and supplementary cementitious materials. SikaFume®-290 CS can be used in the production of conventional concrete as well as SCC (Self-Consolidating Concrete) and UHPC (Ultra-High Performance Concrete).

CHARACTERISTICS / ADVANTAGES

SikaFume®-290 CS provides the following benefits:

- Viscosity and rheology modification properties,
- Reduces excessive bleeding and segregation,
- Reduces shrinkage, curling and cracking potential by reducing evaporative loss in concrete,
- Potentially improves placing and finishing operations of concrete,
- Provides an additional option to standard water reducers and viscosity modifying admixtures.

SikaFume®-290 CS does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

For further information, please visit:

<https://usa.sika.com/en/sustainability.html>

PRODUCT INFORMATION

Packaging	Available in 5-gallon (20-liter) pails, 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
Appearance / Color	Opaque to milky white liquid
Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture. Product will require agitation prior to use.
Storage Conditions	SikaFume®-290 CS should be stored above 32°F (0°C). If frozen, DO NOT USE. Protect from direct sunlight
Specific gravity	Approx. 1.200

TECHNICAL INFORMATION

Concreting Guidance

- Do not allow product to freeze. Product will be rendered unusable and cannot be reconstituted.
- Product will precipitate over time. Product will require agitation or circulation system during use.

APPLICATION INFORMATION

Recommended Dosage

The typical dosage rate of SikaFume®-290 CS will vary up to 16 fl oz / 100 lb. (1040 mL / 100 kg) of cement or cementitious materials.

Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.

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.

Mixing

Measure the required quantity manually or by automated dispenser. Add SikaFume®-290 CS directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. SikaFume®-290 CS 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: SikaFume®-290 CS 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.

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/about-us/terms-conditions-of-sale.html> or by calling 1-800-933-7452.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



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