



## PRODUCT DATA SHEET

# SikaCem®-190 Concrete Control

A non-film forming, low VOC, amorphous colloidal silica topical additive applied to freshly placed concrete that maintains adequate moisture while reducing the risk of concrete setting prematurely

### PRODUCT DESCRIPTION

SikaCem®-190 Concrete Control is a non-film forming, low VOC, amorphous colloidal silica topical additive (evaporation retardant and finishing aid) that is ideal for all decorative and colored concrete applications. Apply during floating and troweling of freshly placed concrete to control moisture loss. This allows proper hydration of the cement that will extend workability and makes finishing concrete flatwork easier and faster under adverse conditions such as wind, sun, high temperatures, or low humidity.

SikaCem®-190 Concrete Control lubricates the surface and increases cream for a smoother finish, which makes troweling easier and faster. Colloidal silica densifies and improves surface consolidation resulting in increased compressive strength and abrasion resistance.

SikaCem®-190 Concrete Control minimizes the potential for cold joints checking, crazing, curling, dusting, stains, and efflorescence on both standard and colored concrete.

### USES

- Decorative concrete
- Concrete slabs
- Polished concrete
- Driveways and sidewalks
- Interior or exterior concrete
- Parking garages
- Industrial floor slabs
- Bridges and roads

### CHARACTERISTICS / ADVANTAGES

- Extended concrete workability
- Lubricates concrete surface
- Promotes proper hydration
- Reduces surface crazing
- All-weather concrete treatment
- Reduces efflorescence
- Reduces cured surface staining
- Casting bed release friendly
- Improves abrasion resistance
- Promotes cleaner control joint cuts
- Chemically reacts with entire mix design
- Promotes flatter, thicker, denser cream cap
- Supports consistent FF/FL numbers

### APPROVALS / STANDARDS

- ASTM E96/E96M-10 - Standard Test Methods for Water Vapor Transmission of Materials
- ASTM C944/C944M-19 - Standard Test Method for Abrasion Resistance of Concrete or Mortar Surfaces by the Rotating-Cutter Method
- ASTM C779/C779M-12 - Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces
- ASTM C1583/C1583M-20 - Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)
- USDA Compliant
- FDA Approved

## PRODUCT INFORMATION

<b>Chemical Base</b>	Colloidal Silica
<b>Packaging</b>	5 gal. (18.9 L) fill in 5 gal. (18.9 L) plastic pail 55 gal. (208.2 L) fill in 55 gal. (208.2 L) steel drum
<b>Shelf Life</b>	24 months in original unopened container
<b>Storage Conditions</b>	Store in original, unopened containers in a well-ventilated, cool, dry location at temperatures between 40-100°F (4-38°C). Do not freeze. Do not break seal until product is ready for use. Maintain unused product in the original container.

## APPLICATION INFORMATION

**Coverage** Apply at a rate of 1200 sq. ft./gal. (29.5 sq. m/L) per application.

### Recommended Applications:

Broomed Finished Concrete	2
Stamped Concrete	2
Color Hardened Concrete	2
Trowel Finished Concrete	3

## 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.

## LIMITATIONS

- SikaCem®-190 Concrete Control is designed to be floated or troweled into the concrete surface.
- It is incompatible with strong oxidizers and strong acids.
- Do not dilute or blend with other products.
- Over application will retard the set of the concrete.

## 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.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

Use a high-volume, low-pressure, manual or commercial grade sprayer or pump up sprayer capable of spraying a fine mist.

### MIXING

SikaCem®-190 Concrete Control is ready to use and requires no blending or dilution. Mild agitation is recommended before usage.

### APPLICATION

SikaCem®-190 Concrete Control must be worked into the surface immediately after application. Apply SikaCem®-190 Concrete Control using an automatic or low pressure pump sprayer. A fan or cone tip is recommended for even application. SikaCem®-190 Concrete Control can also be applied using the water tanks of a ride on trowel.

### Trowel Finished Concrete

Spray apply uniformly onto the concrete surface in three equal applications as follows:

- First application should be applied directly after the screed and before bull floating
- Second application shall be applied just before the first panning
- Third application shall be applied after panning is complete, during the finishing stage

### Trowel Finish Concrete-Finishing Recommendations:

- Follow industry best practice/procedures to begin the finishing process as you would on a standard pour
- Machine panning is not recommended for exterior/air entrained concrete
- Finish by burning/burnishing the floor to desired level

### Broom Finished Concrete

Spray apply uniformly onto the concrete surface in two

equal applications as follows:

- First application should be applied directly after the screed and before bull floating
- Second application shall be applied before edging and refloating, prior to brooming

#### **Stamped or Color Hardened Concrete**

Spray apply uniformly onto the concrete surface in two equal applications as follows:

- First application shall be applied directly after the screed and before bull floating
- Second application shall be applied before edging and refloating, prior to stamping or texturing

#### **CLEANING OF TOOLS**

Clean sprayers with warm, soapy water following use.

#### **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](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.

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#### **Product Data Sheet**

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