

## PRODUCT DATA SHEET

# SikaCem<sup>®</sup>-191 CS Cutter

Water activated, colloidal silica concrete cutting compound that enables rapid stock removal of concrete

### PRODUCT DESCRIPTION

SikaCem<sup>®</sup>-191 CS Cutter is a cutting compound that enables rapid stock removal of concrete. SikaCem<sup>®</sup>-191 CS Cutter allows you to recover from severe scratch patterns easily and efficiently.

### USES

- Cutting new concrete
- Decorative concrete
- Concrete that is to be coated
- Polished concrete
- Institutional applications
- Retail and commercial applications
- Industrial applications

### CHARACTERISTICS / ADVANTAGES

- 100% miscible
- Low VOC
- Water activated
- Significant labor reduction
- Fills capillaries producing a dense surface
- Provides a consistent cut

### 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
<b>Shelf Life</b>	24 months in original unopened container
<b>Storage Conditions</b>	Do not break the seal until SikaCem <sup>®</sup> -191 CS Cutter is ready for use. Maintain unused SikaCem <sup>®</sup> -191 CS Cutter in the original container. Store in a well-ventilated, cool, dry location and maintain temperatures between 40-100°F (4.4-37.8°C). Do not freeze.

# APPLICATION INFORMATION

Coverage	Application Rate	400 sq. ft./gal. (9.8 sq. m/L)
	Applications Required	1

## 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®-191 CS Cutter is incompatible with strong oxidizers and strong acids.
- The concrete refinement process requires three separate products for best results.
- Do not dilute or blend with other products.

## 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

Concrete refinement is a process requiring the use of three separate products that include SikaCem®-191 CS Cutter, SikaCem®-192 CS Densifier, and SikaCem®-193 CS Guard. The products must be used together to attain the desired results. SikaCem®-191 CS Cutter is designed for use during the initial grinding/cutting stage of concrete refinement.

### EQUIPMENT

#### Equipment Guidelines:

Straight Edged Tools	Use for large aggregate
Radius Tools	Use for heavy salt and pepper finish
Semi-metals	Use for light salt and pepper finish or cream polish finish

### SURFACE PREPARATION

Saturated surface dry (SSD). Soak the concrete surface to be ground with water. Apply enough water to saturate the concrete. Allow the water to soak into the slab.

## MIXING

There is no need to mix this material. Do Not Reduce.

## APPLICATION

1. Wet the concrete surface with SikaCem®-191 CS Cutter. Keep the surface wet for a minimum of 30 minutes. You may use a medium bristle broom or an auto scrubber with brushes to break the surface tension.

**Note:** When using the auto scrubber, do not use a squeegee.

- For more aggressive grinding, it is advised to saturate the concrete with SikaCem®-191 CS Cutter for as long as possible. Saturating the concrete for 6 to 8 hours is not excessive. SikaCem®-191 CS Cutter may be applied and left overnight.
2. Grind the concrete surface while it is wet with SikaCem®-191 CS Cutter.
    - All cutting prior to application of the SikaCem®-192 CS Densifier is done wet.
  3. Squeegee the excess slurry from the surface.
  4. Cleaning is required between each grit. It is not necessary to add more SikaCem®-191 CS Cutter.
  5. Continue cutting wet until the desired Roughness Average (Ra) value of the surface is reached. Follow surface texture guidelines through the process before moving to the next successive grit.

After completing application of SikaCem®-191 CS Cutter, prepare for application of SikaCem®-192 CS Densifier. Consult most current SikaCem®-192 CS Densifier local Product Data Sheet for complete Application Instructions.

### 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.

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### Product Data Sheet

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