



## PRODUCT DATA SHEET

# Sika® Antisol® ER 50

(formerly MasterKure® ER 50)

### EVAPORATION REDUCER

#### PRODUCT DESCRIPTION

Sika® Antisol® ER 50 evaporation reducer reduces surface moisture evaporation from freshly placed concrete, especially in rapid drying conditions, such as high concrete surface or ambient temperatures, low humidity, high winds, direct sunlight, or work in heated interiors during cold weather.

#### USES

- Concrete surfaces where the evaporation rate exceeds the bleed rate
- Air-entrained and non-air-entrained concrete
- Silica-fume concrete
- Concrete containing fly ash

#### Substrates

- Interior or exterior
- Horizontal and vertical surfaces

#### PRODUCT INFORMATION

##### Packaging

- 1 gallon (3.8 L) cans
- 5 gallon (18.9 L) pails
- 55 gallon (208 L) drums

##### Shelf Life

1 year when properly stored

##### Storage Conditions

Store in unopened containers in a clean, dry area between 40 and 90° F (4 and 32° C). Keep from freezing.

#### CHARACTERISTICS / ADVANTAGES

- Does not affect concrete strength (early and ultimate), abrasion resistance, and durability
- Reduces or eliminates crusting, stickiness, and underlying sponginess, resulting in a consistent surface
- Allows reduced slump and water content in concrete to facilitate proper hydration of high-strength mixtures
- Reduces surface moisture evaporation by approximately 80% in wind and approximately 40% in sunlight to reduce plastic shrinkage cracking and wind crusting
- Prolongs surface plasticity for longer working time in hot, dry, or windy conditions

## APPLICATION INFORMATION

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### Coverage

- One gallon (3.8 L) of Sika® Antisol® ER 50 mixed with nine gallons (34.1 L) of water yields 10 gallons (37.9 L) of sprayable solution.
  - 10 gallons of Sika® Antisol® ER 50 solution (1 to 9) should cover 2,000–4,000 ft<sup>2</sup> (186–372 m<sup>2</sup>) of fresh concrete.
  - If more than one application is required, e.g., in adverse drying conditions, additional material will be required.
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## 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

- Do not apply Sika® Antisol® ER 50 as a final finishing aid or work it into the surface of cast-in-place concrete or cementitious repair applications. Sika® Antisol® ER 50 evaporation reducer is not a curing agent. Concrete treated with this product must still be cured.
- Sika is not responsible for compatibility or results when Sika® Antisol® ER 50 evaporation reducer is used with other manufacturers' products.
- Sika® Antisol® ER 50 reduces evaporation only while concrete is plastic. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membrane-curing compounds.
- Protect Sika® Antisol® ER 50 from freezing. Extreme cold may cause segregation, from which the product cannot be reconstituted.
- Do not allow any spills or residue of Sika® Antisol® ER 50 concentrate to dry on the surface of hardened concrete. Wipe up immediately, then rinse the surface with water. If the concentrated residue dries on hardened concrete, a reddish-brown stain may appear.
- For a detailed technical discussion about the action of monomolecular films typified by Sika® Antisol® ER 50, refer to the Journal of the American Concrete Institute, Volume 62, pp. 977–985.
- Sika® Antisol® ER 50 product may be used in precast/prestressed concrete applications, such as drainage structures, double-tee beams, bridge girders, and concrete piles, to prevent/minimize tearing and improve surface finish.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

## 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 CHEMTEL at +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

## APPLICATION INSTRUCTIONS

### APPLICATION

1. Agitate Sika® Antisol® ER 50 before mixing with water. Depending on the application, mix at a ratio of up to 1 part Sika® Antisol® ER 50 concentrate to 9 parts water. Re-agitate mixed materials before applying.
2. Apply with a constant pressure or industrial sprayer.
3. Sika® Antisol® ER 50 forms a monomolecular film when sprayed onto the concrete surface immediately after screeding or between finishing operations (as needed). The protective shield of Sika® Antisol® ER 50 usually lasts as long as the concrete remains plastic, despite succeeding floating operations. When applying surface hardeners using the delayed application method, use Sika® Antisol® ER 50 after screeding. When applying surface hardeners using the early application method, use Sika® Antisol® ER 50 only after the specified quantity of dry shake has been incorporated into the concrete by floating and after the first floating operation, if necessary.
4. Treated surfaces are easily distinguished from untreated surfaces because of the greenish-yellow color of the film in the presence of moisture and light. The fluorescent tint of the film disappears completely upon drying. The residue remaining on the surface of hardened concrete does not impair bonding or alter color.

## 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. **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.**

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