

# PRODUCT DATA SHEET

## SikaTard<sup>®</sup>-440

### HYDRATION CONTROLLING ADMIXTURE

#### PRODUCT DESCRIPTION

SikaTard<sup>®</sup>-440 is a hydration controlling admixture to control the hydration of cement. The use of SikaTard<sup>®</sup>-440 allows the concrete producer to stabilize concrete mixes for long periods without negatively affecting concrete durability. SikaTard<sup>®</sup>-440 can also be used to stabilize returned concrete and re-use it. SikaTard<sup>®</sup>-440 can also be used in concrete wash water application. SikaTard<sup>®</sup>-440 meets the requirements of ASTM C-494, Type B and Type D admixture.

#### USES

Typical Applications:

- Transport freshly batched ready mix concrete for long distances.
- For better control of concrete set time in hot and cold weather concreting applications.
- Large concrete pours; to help prevent cold joints.
- Pumping long distances
- Low water cement ratio concrete, such as high strength or pervious concrete.
- High early strength concrete for improvement of workable life without a detrimental effect on early strengths.
- Utilize returned concrete and wash water applications.
- Pervious concrete application.
- Stabilize shotcrete mixes
- Whenever controlled set time or cement hydration is required.

#### CHARACTERISTICS / ADVANTAGES

- Increases workable life of concrete up to several hours.
- Allows controlled delay in set time.
- Provides flexibility in planning and scheduling concrete pours.
- Allows returned concrete to be re-used.
- When used in wash water application, prevents concrete producers from having to clean the truck at the end of day's work and saves water.
- The effect of SikaTard<sup>®</sup>-440 in concrete can be negated by addition of appropriate accelerators, at any time.

#### PRODUCT INFORMATION

##### Packaging

SikaTard<sup>®</sup>-440 is available in 55 gallon drums (208 liters), 275 gallon totes (1040 liters) and bulk delivery.

<b>Appearance / Color</b>	Green Liquid
<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10–27 °C) is 1 year. Protect from direct sun and freezing temperatures.
<b>Storage Conditions</b>	SikaTard®-440 should be stored at above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to normal state.
<b>Specific Gravity</b>	Approx. 1.152

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Dosage rates will vary according to materials used, ambient conditions, and the requirements of a specific project. For normal applications, depending on retardation required, the dosage of SikaTard®-440 will vary from 2–8 fl.oz. per 100 lbs. (130–520 ml / 100 kg) of cementitious mass. For stabilization for longer periods the dosage can be increased up to 48 fl.oz. per 100 lbs. (3130 ml / 100 kg) of cementitious mass. Concrete trial mixes must be conducted to determine the optimum dosage. For more information about the use of this product please contact the local Sika sales representative or the Technical Service Department at 1-800-933-7452.
<b>Mixing</b>	Introduce SikaTard®-440 at a suitable time during the mixing process of concrete. Preliminary trials on site should be conducted to determine the required dosage rates. To optimize the stabilizing effect, after the addition of SikaTard®-440, Sika recommends that the combined materials be mixed for 80-100 revolutions, either in the concrete mixer or in the Ready-Mix truck.  <b>Combination with Other Admixtures:</b> SikaTard®-440 can be used in conjunction with all Sigunit® accelerators. SikaTard®-440 is also compatible with all other Sika admixtures.

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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](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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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