BUILDING TRUST

PRODUCT DATA SHEET

SikaTard®-440

HYDRATION CONTROLLING ADMIXTURE

PRODUCT DESCRIPTION

SikaTard®-440 is a hydration controlling admixture. SikaTard®-440 meets the requirements of ASTM C494/AASHTO M 194, Type B & D.

USES

Unlike conventional set retarding admixtures, SikaTard®-440 is designed to delay the hydration of cement and cementitious materials for controlled amounts of time. SikaTard®-440 can be used in all types of concrete applications and is effective in concrete containing Portland Limestone Cement (PLC/Type IL) and supplementary cementitious materials.

SikaTard®-440 can also be used to stabilize returned concrete for re-use and in concrete wash water applications.

CHARACTERISTICS / ADVANTAGES

SikaTard®-440 is especially effective in transporting concrete for long distances, for slow concrete placements or pumping long distances, but can also be used for typical set retarding applications. The effect of SikaTard®-440 can be negated at any time by the addition of an appropriate set accelerating admixture. SikaTard®-440 is effective in hot weather conditions to offset the accelerating effects of high ambient and concrete temperatures by delaying the cement hydration. Initial set times are delayed, allowing time for proper placement and finishing without cold joints. Hot weather concreting practices as specified in ACI 305 - Guide to Hot Weather Concreting should be followed.

In conventional concrete applications, SikaTard®-440 also provides the following benefits:

- Increased flexibility in planning and scheduling concrete pours,
- Improved workability and slump retention,
- Improved finishing characteristics,
- Reduced risk of thermal cracking in mass concrete pours,
- Reduced water content, increased ultimate compressive and flexural strengths.

When used in wash water applications SikaTard®-440 reduces the amount of time and water required to wash the drum. Wash water can remain in the drum and be used as water for the next batch of concrete.

SikaTard®-440 does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Enables a lower carbon footprint by allowing recycling/reuse of returned or waste concrete and by eliminating the need for temporary batch plants and/or short load deliveries.

A Manufacturer Inventory is available for SikaTard®-440.

For further information, please visit:
https://usa.sika.com/en/sustainability.html

PRODUCT INFORMATION

Packaging	Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
Appearance / Color	Green 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.
Storage Conditions	SikaTard®-440 should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Specific gravity	Approx. 1.152

APPLICATION INFORMATION

Recommended Dosage	The typical dosage rate of SikaTard®-440 for normal applications will vary up to 8 fl oz / 100 lb. (325 mL / 100 kg) of cement or cementitious materials. For stabilization for longer periods the dosage can be increased up to 48 fl oz / 100 lb. (3130 mL / 100 kg) of cementitious materials. Various factors will affect the dosage rates. Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance. The required dosage for a mix design may change with fluctuations in the ambient temperature. 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 SikaTard®-440 directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. SikaTard®-440 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:** SikaTard®-440 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.

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 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.

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