

PRODUCT DATA SHEET

SikaSet® HE

Accelerating Admixture

PRODUCT DESCRIPTION

SikaSet® HE is an accelerating admixture that enhances the early strength of concrete. SikaSet® HE contains Calcium Chloride. SikaSet® HE meets the requirements of ASTM C-494 Types C and E admixtures.

USES

SikaSet® HE is an effective and economical accelerating admixture for use in cold weather concreting applications. Cold temperature may slow down the hydration process and may damage the hardened concrete properties if not treated properly. The slower hydration process can be overcome by the use of this accelerating admixture. SikaSet® HE contains Calcium Chloride, it is not recommended for use in prestressed concrete, post-tensioned concrete, nor reinforced concrete structures.

CHARACTERISTICS / ADVANTAGES

Accelerated Set Times and Strength Development:

SikaSet® HE may be used to accelerate set times and increase early strength gain where job-site efficiency is important in order to meet construction deadlines. SikaSet® HE saves time and money by allowing faster finishing and stripping of concrete formwork.

- Insulation and heating costs during curing time are reduced.
- Accelerated set times allow crews to finish concrete earlier, saving on labor costs.
- Earlier stripping and reuse of forms increases labor productivity.
- Accelerated strength gain allows earlier structural use and speeds completion time.

Cold Weather Concreting: At the recommended dosage rate, SikaSet® HE will protect concrete from freezing in most sub-freezing temperature conditions and may reduce the need for cold weather concreting practices as specified in ACI 306 – Standard Specification for Cold Weather Concreting.

PRODUCT INFORMATION

Packaging	SikaSet® HE is available in 55 gallon drums (208 liters), 275 gallon totes (1040 liters) and bulk delivery.
Appearance / Color	Turbid Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10–27 °C) is 1 year.
Storage Conditions	SikaSet® HE will begin to freeze at 20 °F (-7 °C). If frozen, thaw and agitate thoroughly to return to its normal state before use.
Specific Gravity	Approx. 1.31

APPLICATION INFORMATION

Recommended Dosage

To accelerate set times dosage at the rate of 8–50 fl. oz. / 100 lbs. (520–3260 ml/100 kg) of cement is recommended. When used to protect concrete from freezing, dosage will vary with different brands of cement and ambient temperatures and higher dosages may be necessary. Sika recommends that trial mixes be performed to determine the most efficient dosage. When using 16 fl. oz./100 lbs., adjust mixing water accordingly.

Mixing

Add the correct amount of SikaSet® HE at the concrete plant. The admixture may be added manually or by automated dispenser directly in the mixer or into the water at the batch plant. When used in combination with other admixtures care must be taken to dispense each admixture separately into the mix. Do not mix with dry cement. Field evaluations should be carried out to determine the minimum ambient and concrete temperature required, and the optimum dosage for the desired setting time and strength performance. Sika strongly recommends that appropriate, sound curing practices be followed to protect fresh concrete from excessive heat loss in extreme weather conditions.

Combination with Other Admixtures: SikaSet® HE is highly effective as a single admixture or in combination with other admixtures in the Sika System.

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 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.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



Product Data Sheet

SikaSet® HE
November 2018, Version 01.02
021402021000000037

SikaSetHE-en-US-(11-2018)-1-2.pdf

