



PRODUCT DATA SHEET

SikaTard[®]-440

HYDRATION CONTROLLING ADMIXTURE

PRODUCT DESCRIPTION

SikaTard[®]-440 is a new hydration controlling admixture to control the hydration of cement. The use of SikaTard[®]-440 allows the concrete producer to stabilize concrete mixes for long periods without negatively affecting concrete durability.

WHERE TO USE

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 mechanical properties
- 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
- 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
- The effect of SikaTard[®]-440 in concrete can be negated by addition of appropriate accelerators, at any time

APPROVALS / CERTIFICATES

Meets the requirements of ASTM C494 Type B and D admixture.

PRODUCT INFORMATION

CSC MasterFormat[®]

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Packaging

205 L (54 US gal.) drum
1040 L (275 US gal.) IBC
Bulk delivery

Shelf Life

1 year when stored in dry warehouse conditions at temperatures ranging between +4 °C and +27 °C (40 °F and 80 °F).

Storage Conditions

Store at temperatures above +5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state. Protect from direct sunlight.

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Appearance / Colour

Liquid / Green

Specific Gravity

Approx. 1.15

APPLICATION INFORMATION

Recommended Dosage

Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project.

For normal applications, depending on the retardation required, the dosage of SikaTard®-440 will vary from 130-520 mL/100 kg (2–8 fl.oz. per 100 lb) of cementitious mass. For stabilization for longer periods, the dosage can be increased up to 3100 mL/100 kg (48 fl.oz. per 100 lb) of cementitious mass. Concrete trial mixes must be conducted to determine the optimum dose. For more information about the use of this product, please contact your Sika Canada Technical Sales Representative.

Mixing

Mixing

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.

Combination with other admixtures: 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

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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