

**Product Data Sheet**

Edition 08.2017/v2

CSC Master Format™ 03 05 00

SikaTard-440

# SikaTard-440

## Hydration Controlling Admixture

**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 strengths.
- Stabilize shotcrete mixes.
- Whenever controlled set time or cement hydration is required.

**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.

**Standards** SikaTard-440 meets the requirements of ASTM C494 Type B and D admixture.

**Typical Data****Packaging**

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

**Colour and Form**

Green liquid

**Shelf Life and Storage**

1 year when stored in dry warehouse conditions between 10 - 27°C (50 - 80°F).  
Store at above 5°C (40°F). If frozen, thaw and agitate thoroughly to return to normal state. Protect from direct sunlight.

**Properties****Specific Gravity**

Approx. 1.15

**How to Use****Dosage**

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 130 - 520 mL/100 kg of cementitious mass. For stabilization for longer periods the dosage can be increased up to 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 your Sika Canada Technical Sales Representative.

**Mixing**

For best results, add SikaTard-440 to the mix together with the mixing water. During the wet process shotcreting Sigunit® accelerator is added at the spray nozzle to initiate fast setting. 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.



# Construction

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**Clean Up** Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

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**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the **most recent Material Safety Data Sheet** containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

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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, within their shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).

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**Sika Canada Inc.**  
**Head Office**  
601 Delmar Avenue  
Pointe-Claire, Quebec  
H9R 4A9

Other locations  
**Toronto**  
**Edmonton**  
**Vancouver**

**1-800-933-SIKA**  
**[www.sika.ca](http://www.sika.ca)**

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Set-Retarders  
**SikaTard-440**