

SikaTard® 440

Hydration Controlling Admixture

Construction

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| Description | <p>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.</p> <p>SikaTard 440 meets the requirements of ASTM C-494, Type B admixture.</p> |
| Applications | <p>Typical applications:</p> <ul style="list-style-type: none">▪ 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. |
| Benefits | <ul style="list-style-type: none">▪ 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. |
| How to Use | |
| Dosage | <p>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.</p> |
| Mixing | <p>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.</p> <p>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.</p> |



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| Packaging | SikaTard 440 is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) and bulk delivery. |
| Storage and Shelf Life | SikaTard 440 should be stored at above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state. Shelf life when stored in dry warehouse conditions between 50°F and 80°F (10°C - 27°C) is 1 year. Protect from direct sun and freezing temperatures |
| Typical 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. | |
| Appearance | Green Liquid |
| Specific Gravity | Approx. 1.15 |
| Caution: | IRRITANT. Contains Sodium salt of an organic acid (Mixture). May cause eye/skin/respiratory irritation. May be harmful if swallowed. |
| Handling and Storage | Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse. |
| Clean Up | Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations. |
| First Aid | Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist. |

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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: (201) 933-8800
Fax: (201) 933-6225
www.sikaconstruction.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Phone: (514) 697-2610
Fax: (514) 697-3087
www.sika.ca

1-800-933-SIKA



Regional Information and Sales Centers. For the location of your nearest Sika representative, contact your regional center.

U.S. : **North East Region:** Fairless Hills, PA, Phone: (215) 295-6600 **North Central Region:** Marion, OH, Phone: (800) 851-1545
South East Region: Conyers, GA, Phone: (770) 760-1300 **South Central Region:** Mesquite, TX, Phone: (972) 289-6480
Western Region: Santa Fe Springs, CA, Phone: (562) 903-3650

Canada: **Ontario:** Mississauga, ON, Phone: (905) 795-3177, **Alberta:** Edmonton, AB, Phone: (780) 486-6111

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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