

Sika® Control-40

Shrinkage Reducing Admixture

Description	Sika® Control-40 is a shrinkage reducing admixture used to produce high performance concrete with greatly reduced drying shrinkage. Sika® Control-40 meets the requirements of ASTM C-494 Type S.
Applications	Sika® Control-40 is designed for the following applications: <ul style="list-style-type: none">■ Concrete floors where reduced shrinkage minimizes risk of shrinkage cracking for the same joint spacing, and allows greater joint spacing without increasing the risk of shrinkage cracking.■ Thin bonded topping slabs, to minimize the difference in shrinkage between the new topping and the existing substrate.■ Concrete elements which are restrained against shrinkage.■ For durable concrete in marine environments.■ For watertight concrete in reservoirs, sewage treatment plants, and dams.
Benefits	<ul style="list-style-type: none">■ Greatly reduced drying shrinkage & resulting cracking.■ Reduces the potential for slab curling.■ Substantially improved impermeability, resulting in improved concrete durability.■ Can be used for air entrained or non air entrained concrete.
How to Use	<p>Dosage</p> <p>Dosage rates will vary according to materials used, ambient conditions and the requirements of Dosage a specific project.</p> <p>Sika recommends dosage at 8-40 fl. oz. per 100 lbs. (0.52-2.61 L/100 kg) of cementitious for general concrete applications.</p> <p>Dosage rates outside the recommended range may be used when unusual project conditions require special consideration. In this case, Please contact your local Sika representative or Sika Technical Service Department 1-800- 933-7452 for more information and assistance.</p> <p>Laboratory tests show that, at a dosage of 30 fl.oz./cwt. of Sika® Control-40, shrinkage over the long term can be reduced by as much as 40%. However, the amount of shrinkage reduction is dependent on the mix design and the components of the concrete.</p> <p>When using Sika® Control-40, lab and field tests are always recommended to verify the performance and handling characteristics of the specified concrete mix.</p>
Mixing	<p>The required dosage of Sika® Control-40 should be added to the concrete at the batching plant, with the gauging water or poured into the concrete simultaneously with it. It may also be added in the transit mixer at the point of discharge, but an additional mixing time of 5 minutes is required and the concrete should be visually checked for uniform consistency.</p> <p>Combination with other admixtures: Sika® Control-40 is highly effective as a single admixture or in combination with other Sika admixtures. Do not pre-mix with other admixtures.</p>

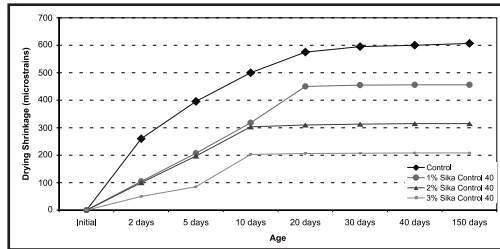
Concrete



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Packaging	Sika® Control-40 is available in 55 gallon drums (208 liters), 275 gallon (1040 liter) totes and bulk supply.
Storage and Shelf Life	Sika® Control-40 should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state. Shelf life when stored in dry warehouse condition between 50°F and 80°F (10°C - 27°C) is one year.
Typical Data	
Appearance	Pink Liquid
Specific Gravity	Approx. 1.00

Typical Shrinkage Results



Note: Above results should be used strictly as a guide only. Different results should be expected based on testing method and condition of test. Dose rates of Sika® Control-40 are based on weight of cement.

Important Notes

- Sika® Control-40 will reduce drying shrinkage. It will not eliminate cracking. The reduction of cracking is dependant on good engineering design that allows for concrete shrinkage by incorporating well designed and properly located shrinkage control joints.
- It is essential to protect the concrete from water evaporation during the crucial early age period. We recommend the use of SikaFilm® evaporation retardant and curing compounds for this purpose. Refer to the technical data sheets for information.
- When Sika® Control-40 is used for the production of air entrained concrete, a higher dosage of the air entraining admixture may be required.
- Sika® Control-40 will cause retardation when used during cold weather concreting. This effect can be reduced by adding Sika® Rapid-1 or other accelerating admixtures.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY

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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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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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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