

PRODUCT DATA SHEET

SikaControl®-245 WT Liquid

CRYSTALLINE PERMEABILITY REDUCING ADMIXTURE

PRODUCT DESCRIPTION

SikaControl®-245 WT Liquid is an integral liquid crystalline based permeability reducing admixture. SikaControl®-245 WT Liquid meets the requirements of ASTM C494/AASHTO M 194, Type S and is certified to NSF/ANSI/CAN 61 at select locations.

USES

SikaControl®-245 WT Liquid is designed for use in various watertight concrete applications including but not limited to the following structures:

Industrial Applications:

- Tunnels and Subway Stations
- Manholes
- Bridges
- Water Treatment Plants and Water Tanks
- Dams and Reservoirs
- Secondary Containment Structures

Commercial Applications:

- Shopping Centers
- Libraries
- Data Centers and Computer and Server Rooms
- Elevator Pits
- Basements
- Water Parks
- Underground Parking Garages

Residential Applications:

- Foundations and Concrete Basements
- Swimming Pools

SikaControl®-245 WT Liquid can be used in the production of SCC (Self-Consolidating Concrete) and conventional slump concrete, and is effective in concrete containing Portland Limestone Cement (PLC/Type IL) and supplementary cementitious materials.

CHARACTERISTICS / ADVANTAGES

SikaControl®-245 WT Liquid uses a unique combination of active ingredients which react with ingress moisture within concrete. This reaction forms insoluble compounds throughout the capillary system in the concrete matrix resulting in crack healing properties and an improved resistance to water permeability. Additionally, SikaControl®-245 WT Liquid has minimal impact on setting characteristics and strength characteristics.

SikaControl®-245 WT Liquid also provides the following benefits:

- Uniform permeability reduction throughout the treated concrete volume,
- Improved resistance against hydrostatic pressure,
- Ability to seal non-moving concrete cracks up to 0.016 in (0.40 mm),
- Improved durability and service life,
- Lower construction costs compared to traditional types of waterproofing,
- Potentially eliminates the risk of damage to traditional types of waterproofing systems during the construction process.

In addition to the use of SikaControl®-245 WT Liquid it is recommended the concrete is designed for a minimum cementitious content of 590 lbs per cubic yard and a maximum water/cementitious ratio of 0.42. For optimum permeability reduction, proper curing of freshly placed concrete per ACI 308R-01 - Guide to Curing Concrete should be followed.

SikaControl®-245 WT Liquid does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Potentially eliminates need for post-placement applied barrier, compressing the construction schedule and associated carbon footprint. Extends service life.

For further information, please visit:
<https://usa.sika.com/en/sustainability.html>

PRODUCT INFORMATION

Packaging	Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
Appearance / Color	Opaque Liquid
Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture. Presence of precipitation or sedimentation is possible over time and does not effect the performance of the product.
Storage Conditions	SikaControl®-245 WT Liquid should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Specific gravity	Approx. 1.130

APPLICATION INFORMATION

Recommended Dosage	<p>The typical dosage rate of SikaControl®-245 WT Liquid is 14 fl oz / 100 lb. (910 mL / 100 kg) of cement or cementitious materials. The mix water should be reduced by an equivalent amount of SikaControl®-245 WT Liquid used in the concrete. Various factors will affect the dosage rates.</p> <p>Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.</p> <p>To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. For dosage rates outside the typical range, please contact your local Sika representative or the Sika Technical Services Department at 1-800-933-7452.</p>
Mixing	<p>Measure the required quantity manually or by automated dispenser. Add SikaControl®-245 WT Liquid directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. SikaControl®-245 WT Liquid may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.</p> <p>Compatibility: SikaControl®-245 WT Liquid can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.</p>

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.

Always perform test batches to establish mix design and mix properties and performance prior to use.

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/about-us/terms-conditions-of-sale.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



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