

SikaTop® 144

Polymer-modified portland-cement coating

Description	SikaTop® 144 is a polymer-modified, 2-component, cementitious coating. Designed for use on concrete, mortar, and masonry substrates. Easily applied by brush, roller, or spray equipment. This fine-textured, abrasion-resistant coating is used for protection against deicing salts and for damp-proofing/waterproofing.
Where To Use	<ul style="list-style-type: none"> ■ Use on grade, above, and below grade on concrete, masonry, and mortar. ■ Use on horizontal, vertical, and overhead surfaces, both interior and exterior. ■ Potable water tanks. ■ Use as a coating over newly repaired concrete to provide a monolithic/uniform appearance. ■ Use as a protective coating to reduce the affect of deicing salt on concrete. ■ Use as a protective coating for waterproofing, damp-proofing, and improved resistance to weathering. ■ Use on concrete and masonry substrates to improve abrasion resistance to foot traffic and light pneumatic-tire traffic. ■ Use to coat the backside of architectural curtain wall panels to prevent water intrusion from the outside.
Advantages	<ul style="list-style-type: none"> ■ Bond strength ensures superior adhesion. ■ Increases resistance of substrate to deicing salts. ■ Does not create a vapor barrier. ■ No mix water needed, liquid co-polymer triggers special blend of cements, fillers, and admixtures. ■ Superior abrasion resistance. ■ No batching, factory proportioned unit ensures consistent composition and high quality. Non-flammable; low odor. ■ Easily applied to clean, sound substrates. ■ Approved for use in contact with potable water. ■ USDA-approved for incidental food contact. ■ May be overcoated with Sikagard® protective coatings.
Coverage	First Coat 100-150 ft./gal. Second Coat 150-200 ft./gal. Coverage is dependent upon substrate texture and porosity.
Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Component 'B'.

Typical Data (Material and curing conditions @ 73°F and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original, unopened packaging.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 60°-75°F before using. Component 'A' must be protected from freezing. If frozen, discard.
Color	White and cement-gray.
Mixing Ratio	Factory proportioned unit. Mix entire contents.
Pot Life	Approximately 4 hours.
Tack-Free Time	Approximately 30 minutes.
Recoat Time	Allow 2 hours minimum between coats.
Application Thickness	8-16 mils/coat.
Abrasion Resistance (ASTM D-968 modified)	
7 day	55 liters/mil
Bond Strength (Elcometer)	
7 day	concrete substrate failure
Water-Vapor Transmission: (ASTM E-96)	
7 day	1 coat 27 grains/hr./ft. ²
	2 coats 24 grains/hr./ft. ²



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 INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use	
Substrate	Concrete, mortar, and masonry.
Surface Preparation	All surfaces to be coated must be clean, sound, and saturated surface dry with no standing water at the time of application. Remove all dust, laitance, grease, oils, curing compounds, waxes, impregnations, and other contaminants. Should substrate require repair, patch with appropriate SikaTop® PLUS repair system. Preparation work must be done by mechanical equipment, i.e., blast cleaning, water blasting, or a combination of the two.
Mixing	All mixing must be done mechanically using a low-speed drill (400-600 rpm) and Sika paddle. Place approximately 1/2 Component 'A' into a clean mixing container. While mixing, slowly add all of Component 'B' and continue to mix until you achieve a uniform paste with no lumps. Be sure to scrape down sides of the mixing container at this time. Add remainder of Component 'A' and continue to mix until uniformly blended.
Application	SikaTop® 144 should only be applied over properly prepared surfaces with high-quality brushes, rollers, or "hopper-type" spray equipment. Surface should be saturated surface dry prior to application. Two coats are recommended for maximum performance. Recommended thickness per coat is 8 to 16 mils. Apply thoroughly mixed coating generously with loaded brush or roller. Always finish off with light strokes blending back into coated area for uniform appearance. For application in direct sun or on a hot substrate, pre-wet surface and allow surface water to dissipate before coating.
Tooling & Finishing	Curing: Protect newly applied SikaTop® 144 from direct sunlight, wind, rain and freezing.
Limitations	<ul style="list-style-type: none"> ■ Maximum thickness of applications is 16 mils/coat, thicker application can result in cracking. ■ Do not apply when rain is expected. ■ Minimum ambient and substrate temperature is 45°F and rising at the time of application. ■ For spray application, coating must be screened prior to loading of the spray hopper. ■ Coating may chalk and show water marks due to weathering. ■ For applications where coating will be subjected to immersion, a 3-day cure is recommended. ■ Coating will slightly yellow with age and exposure to UV light. ■ As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.

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

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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/> 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.

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