

PRODUCT DATA SHEET

SikaTop[®]-144

Polymer-modified portland-cement coating

PRODUCT DESCRIPTION

SikaTop[®]-144 is a polymer-modified, two-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.

USES

- 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.

CHARACTERISTICS / ADVANTAGES

- Bond strength ensures superior adhesion.
- Increases resistance of substrate to deicing salts.
- 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.
- May be overcoated with Sikagard[®] protective coatings.

APPROVALS / STANDARDS

- USDA certifiable for incidental food contact

PRODUCT INFORMATION

Packaging

Component A

3.5 gal (13.2L) pail

Component B

45 lb (20.4 kg) bag

Appearance / Color

- White
- Cement-gray

Shelf Life

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging

Storage Conditions

Store dry at 40–95 °F (4–35 °C)

Component 'A' must be protected from freezing. If frozen, discard.
Component 'B' must be protected from moisture. If damp, discard.

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Condition material to 60–75 °F before using.

TECHNICAL INFORMATION

Abrasion Resistance	<u>7 days</u>	<u>55 L/mil</u>	(ASTM D-968 modified)
	73 °F (23 °C) and 50 % R.H.		
Tensile Adhesion Strength	<u>7 days</u>	<u>concrete substrate failure</u>	(Elcometer)
Diffusion Resistance to Water Vapor	7 days at 73 °F (23 °C) and 50 % R.H.		(ASTM E-96)
	<u>1 coat</u>	<u>27 grains/hr/ft²</u>	
	<u>2 coats</u>	<u>24 grains/hr/ft²</u>	

APPLICATION INFORMATION

Mixing Ratio	Factory proportioned unit. Mix entire contents.		
Coverage	<u>1st coat</u>	<u>100–150 ft/gal</u>	(Coverage figures do not include allowance for surface profile and porosity or material waste)
	<u>2nd coat</u>	<u>150–200 ft/gal</u>	
Layer Thickness	Min.	Max.	
	<u>8 mils (0.2 mm)</u>	<u>16 mils (0.4 mm)*</u>	
* Thicker application can result in cracking			
Ambient Air Temperature	> 45 °F (7 °C)		
Substrate Temperature	> 45 °F (7 °C)		
Pot Life	~ 4 hours		
	As the temperature will affect the pot life, application temperature: <ul style="list-style-type: none">▪ Above 73 °F (23 °C) will reduce the pot life and workability▪ Below 73 °F (23 °C) will extend the pot life and workability		
Final Set Time	~ 30 minutes tack-free time		
Waiting / Recoat Times	2 hours minimum between coats		

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Concrete, mortar, and masonry must be clean and sound.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- 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.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.

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 SSD prior to application.
- Two coats are recommended for maximum performance.

- 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.
- Refer to ACI 306 and 305 Guidelines when there is a need to place this product in cold & hot temperatures.

CURING TREATMENT

- As per ACI recommendations for Portland cement concrete, curing is required.
- Moist cure with wet burlap and polyethylene, a fine mist of water or Sika® Antisol®-250W*.
- Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings.
- Moist curing should commence immediately after finishing. Protect newly applied SikaTop®-144 from direct sunlight, wind, rain and freezing.

*Pretest of curing compound is recommended.

LIMITATIONS

- Do not apply when rain is expected.
- 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.
- Does not create a vapor barrier.
- Refer to Sika® Antisol®-250W product data sheet for use.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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**

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