

**Product Data Sheet**  
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Identification no. 180  
SikaTop 144

Construction

# SikaTop<sup>®</sup> 144

## Polymer-modified portland-cement coating

<b>Description</b>	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 dampproofing/waterproofing.
<b>Where To Use</b>	<ul style="list-style-type: none"> <li>■ Use on grade, above, and below grade on concrete, masonry, and mortar.</li> <li>■ Use on horizontal, vertical, and overhead surfaces, both interior and exterior.</li> <li>■ Potable water tanks.</li> <li>■ Use as a coating over newly repaired concrete to provide a monolithic/uniform appearance.</li> <li>■ Use as a protective coating to reduce the affect of deicing salt on concrete.</li> <li>■ Use as a protective coating for waterproofing, dampproofing, and improved resistance to weathering.</li> <li>■ Use on concrete and masonry substrates to improve abrasion resistance to foot traffic and light pneumatic-tire traffic.</li> <li>■ Use to coat the backside of architectural curtain wall panels to prevent water intrusion from the outside.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Potable water approved.</li> <li>■ Bond strength ensures superior adhesion.</li> <li>■ Increases resistance of substrate to deicing salts.</li> <li>■ Does not create a vapor barrier.</li> <li>■ No mix water needed...liquid co-polymer triggers special blend of cements, fillers, and admixtures.</li> <li>■ Superior abrasion resistance.</li> <li>■ No batching...factory proportioned unit ensures consistent composition and high quality. Non-flammable; lowodor.</li> <li>■ Easily applied to clean, sound substrates.</li> <li>■ Approved for use in contact with potable water.</li> <li>■ USDA-approved for use in food plants.</li> <li>■ May be overcoated with Sikagard protective coatings.</li> </ul>
<b>Coverage</b>	First Coat      100-150ft./gal. Second Coat    150-200ft./gal. Coverage is dependent upon substrate texture and porosity.
<b>Packaging</b>	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.)

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

### How to Use

**Substrate**                      Concrete, mortar, and masonry.



<b>Surface Preparation</b>	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.
<b>Mixing</b>	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.
<b>Application</b>	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.
<b>Curing</b>	Protect newly applied SikaTop 144 from direct sunlight, wind, rain and freezing.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Maximum thickness of applications is 16 mils/coat, thicker application can result in cracking.</li> <li>■ Do not apply when rain is expected.</li> <li>■ Minimum ambient and substrate temperature is 45°F and rising at the time of application.</li> <li>■ For spray application, coating must be screened prior to loading of the spray hopper.</li> <li>■ Coating may chalk and show water marks due to weathering.</li> <li>■ For applications where coating will be subjected to immersion, a 3-day cure is recommended.</li> <li>■ Coating will slightly yellow with age and exposure to UV light.</li> <li>■ 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.</li> </ul>
<b>Caution</b>	<p><b>Component 'A' - Irritant</b> - May cause skin/eye/respiratory irritation. Avoid breathing vapors. Use with adequate ventilation. Avoid skin and eye contact. Safety goggles and rubber gloves are recommended.</p> <p><b>Component 'B' - Irritant; Suspect carcinogen</b> - Contains portland cement and sand (crystalline silica). Skin and eye irritant. Avoid contact. Dust may cause respiratory tract irritation. Avoid breathing dust. Use only with adequate ventilation. May cause delayed lung injury (silicosis). IARC lists crystalline silica as having sufficient evidence of carcinogenicity in laboratory animals and limited evidence of carcinogenicity in humans. NTP also lists crystalline silica as a suspect carcinogen. Use of safety goggles and chemical resistant gloves is recommended. If PELs are exceeded, an appropriate NIOSH approved respirator is required. Remove contaminated clothing.</p>
<b>First Aid</b>	In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for 15 minutes and contact a physician immediately. For respiratory problems, remove person to fresh air.
<b>Clean Up</b>	In case of spillage, scoop or vacuum into appropriate container, and dispose of in accordance with current, applicable, local, state and federal regulations. Keep container tightly closed and in an upright position to prevent spillage and leakage.  <b>Mixed components:</b> Uncured material can be removed with water. Cured material can only be removed mechanically.

KEEP CONTAINER TIGHTLY CLOSED  
 NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN  
 FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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 technical 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.

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.

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