

**Product Data Sheet**

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 Identification no.  
 SikaProof Seal

# SikaProof® Seal

Cement-based,  
 waterproof coating

<b>Description</b>	SikaProof Seal modified with SikaLatex acrylic dispersion is a two-component, polymer-modified, cementitious waterproof coating for concrete and masonry.
<b>Advantages</b>	<p>SikaProof Seal provides the following beneficial properties:</p> <ul style="list-style-type: none"> <li>■ Improves the watertightness of water-containing concrete tanks, reservoirs, and clearwells.</li> <li>■ Protects against water penetration, yet water vapor permeable (breathable).</li> <li>■ Excellent freeze/thaw resistance.</li> <li>■ Good adhesion to sound, prepared substrates.</li> <li>■ Easy and fast mixing and application.</li> <li>■ Good abrasion resistance.</li> <li>■ Can be mixed to slurry or trowelable consistency.</li> <li>■ Improves concrete/masonry appearance.</li> <li>■ Available in concrete gray and off-white.</li> </ul>
<b>Where to use</b>	<ul style="list-style-type: none"> <li>■ For interior and exterior waterproofing of basements.</li> <li>■ For internal and external waterproofing and dampproofing concrete, mortar blockwork and brickwork.</li> <li>■ For waterproofing of drinking water, tanks, reservoirs, and clearwells.</li> <li>■ For protection of concrete structures against the deleterious effects of deicing salts and freeze/thaw cycles.</li> <li>■ Vertical surfaces.</li> <li>■ Horizontal surfaces subjected to light foot traffic (i.e., balconies).</li> </ul>
<b>Coverage</b>	<p>Low (less than 15 psi) hydrostatic pressure: 1st Coat - 225 sf/bag; 2nd Coat - 450 sf/bag.</p> <p>High hydrostatic pressure: 1st Coat - 225 sf/bag; 2nd Coat - 225 sf/bag.</p>
<b>Packaging</b>	50 lb. multi-wall bag.

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

<b>Shelf Life</b>	1 year when unopened. Protect from moisture.		
<b>Storage Conditions</b>	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.		
<b>Colors</b>	Concrete gray and white.		
<b>Mixing Ratio</b>	SikaLatex acrylic dispersion: SikaProof Seal Slurry consistency 1:3.1 by weight (full unit) Trowelable consistency 1:4.2 by weight		
<b>Density (wet mix)</b>	125 lbs./cu. ft. (2.0 kg/l) = 16.6 lbs./gal.		
<b>Working Time</b>	Approximately 60 minutes at 68°F. Approximately 30 minutes at 86°F.		
<b>Compressive Strength (ASTM D-695) @ 28 days</b>	Type Gray	4,800 psi (33.1 MPa)	
<b>Tensile Strength (ASTM C-307) 28 days</b>	7 days:	180 psi (1.2 MPa)	28 days: 390 psi (2.7 MPa)
<b>Bond Strength (ACI 503R-30 Modified): Pull-off test</b>	28 days	300 psi (2.1 N/mm <sup>2</sup> ) (substrate failure)	
<b>Flexural (ASTM C-293)</b>	7 days:	800 psi (5.5 MPa)	28 days: 1060 psi (7.3 MPa)
<b>Watertightness under Hydrostatic Pressure (DIN 1048 Mod.)</b>			
<b>Water Pressure</b>	<b>Penetrated Water</b>	<b>Water Absorption</b>	
feet (bar)	grains (grams)	grains	grams
		ft <sup>2</sup> •hours	(m <sup>2</sup> •hours)
16 (0.5)	0 (0)	0	(0)
33 (1)	45 (3)	9	(6)
99 (3)	93 (6)	30	(21)
Rendering mortars absorbing less than 91 grains/ft <sup>2</sup> •h (64 grams/m <sup>2</sup> •h) are considered watertight.			
<b>Vapor Permeability (ASTM E-96)</b>	U.S. perms	28 days	18 (not a vapor barrier)
<b>Carbon Dioxide Diffusion</b>	Coefficient (μco <sub>2</sub> )	Equivalent to approximately 3" of new concrete.	
<b>Water Vapor Diffusion</b>	Coefficient (μH <sub>2</sub> O)	Approximately 500 ("breathable")	



## How to Use

### Substrate Preparation

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Steel and iron surfaces must be free from scale, rust, grease and oil. All surfaces must be as true and flat as possible. An open-textured, sandpaper-like substrate is ideal (CSP number 3 to 4 per ICRI Guideline No. 03732). All surfaces must be saturated surface dry (SSD), with no standing water at time of application. It is necessary to stop active water leaks prior to the application of SikaProof Seal. Use SikaPlug to stop water leaks.

### Mixing

Mix one 50 lb. bag with 6-8 quarts of mixing liquid. At a dilution ratio of 1:3, each 50 lb. bag of SikaProof Seal will require approximately 1.5-2.0 quarts of SikaLatex and 4.5-6.0 quarts of water.

The ratio of SikaLatex: water may be varied from 1:3 to 2:1, depending on the job requirements.

The consistency of the mix can be altered by reducing the amount of liquid to be used. Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. For a trowelable consistency, use the lower range of the specified mixing liquid. Mix in a clean container by slowly adding the powder component to the liquid component and mixing with slow speed drill and mixing paddle.

The mixed material should be allowed to rest undisturbed for 3-5 minutes in order to allow the powder to fully wet out. The mix should then be remixed and applied.

### Application

SikaProof Seal can be applied by trowel, notched trowel, stiff bristle brush, or spray equipment. Work the material well into the prepared substrate, filling all pores and voids.

For brush consistency: Apply the first coat of SikaProof Seal with horizontal brush strokes and leave to harden (24 hours). Apply the second coat with vertical brush strokes.

For trowel consistency: Apply the first coat with a notched trowel and leave to harden (24 hours). Apply the second coat with a flat trowel.

For spray application: Use a hopper gun spray equipment, textured sprayer (e.g. Texspray E110c), or a rotor/stator pump equipment. Allow the first coat to harden (24 hours) prior to the application of the second coat.

As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or a plastic trowel. Do not overwork SikaProof Seal during finishing and avoid the use of additional water.

### Curing

As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost.

### Limitations

- If rain is anticipated within 1-2 days after application, the surface should be protected in order to prevent streaking.
- Not an aesthetic coating. As with any cement-based material, it is difficult to achieve color uniformity due to weather and substrate variability. For this reason it may be necessary to specify a colored top coat of Sikagard 550W, Sikagard 670W, Sika ElastoColor, or SikaColor. Jobsite mock-ups should always be specified, completed, and accepted prior to the commencement of the project.
- Minimum ambient and substrate temperatures are 40°F (4°C) and rising at the time of application.
- Maximum application thickness per coat = 80 mils (2 mm).
- Allow SikaProof Seal to cure 7-10 days before immersing in water.

### Caution

**SikaProof Seal - Irritant; suspect carcinogen** - Contains portland cement and sand (crystalline silica). Skin and eye irritant. Avoid contact. Dust may cause respiratory tract irritation. Avoid breathing dust. 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/MSHA approved respirator is required. Remove contaminated clothing.

### First Aid

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. For respiratory problems, remove person to fresh air.

### Clean Up

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.

**Mixed components:** 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.

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