

## PRODUCT DATA SHEET

# Sikagard®-356 W

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### WATER BASED ALIPHATIC POLYURETHANE WALL COATING

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#### PRODUCT DESCRIPTION

Sikagard®-356 W is a two-component, low VOC, low odor, water based aliphatic polyurethane coating formulated to provide excellent abrasion and chemical resistance. It has superior UV resistance to color change and produces durable, easy to clean stippled finish. Sikagard®-356 W is available in high gloss.

#### USES

Sikagard®-356 W may only be used by experienced professionals.

Sikagard®-356 W is high performance wall coating typically applied in the following areas:

- Hospitals and medical research facilities
- Pharmaceutical laboratories and production areas
- Veterinarian and animal holding areas
- Educational and recreational premises
- Commercial kitchens and service corridors
- Food and beverage processing areas
- Packaging and storage areas
- Restrooms, locker rooms and showers

#### CHARACTERISTICS / ADVANTAGES

- Advanced water based technology
- Superior UV resistance to color change, non-yellowing
- Aesthetic, stippled finish with excellent opacity
- Low VOC / very low odor
- Waterproof, suitable for wet in-service areas
- Excellent abrasion and chemical resistance
- Durable, impermeable, and seamless
- Easily cleaned and maintained

#### APPROVALS / STANDARDS

Meets the requirements of CFIA and USDA for use in food plants.

## PRODUCT INFORMATION

<b>Packaging</b>	Component A	3.91 US gal. fill in 5 gal pail
	Component B	Box containing 2 x 1 US gal. cans
	Kit (2A+B)	9.82 US gal
<b>Color</b>	Available in White	
<b>Shelf Life</b>	1 year in original, unopened packaging under proper storage conditions	
<b>Storage Conditions</b>	Store dry at temperatures between 40 °F to 85 °F (4.5 °C to 30 °C). Protect from freezing. If frozen, discard. Precondition material for at least 24 hours between 65 °F to 86 °F (18 °C to 30 °C) before use.	
<b>Solid Content</b>	49% ± 1%	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	78	ASTM D2240 at 73 °F (23 °C) and 50% R.H
<b>Abrasion Resistance</b>	CS-17/1,000 g/1,000 cycles - 0.0671 g loss	ASTM D4060 at 73 °F (23 °C) and 50% R.H
<b>Flexural Strength</b>	>652 psi (>4.5 MPa) Concrete Failure	ASTM D4541
<b>Tensile Strength</b>	2,755 psi (19 MPa)	ASTM D638 at 73 °F (23 °C) and 50% R.H
<b>Resistance to fire</b>	0 (FSR) Flame Spread Rating 10 (SDC) Smoke Developed Classification	CAN/ULC S102
<b>Water Absorption</b>	3.77% (24 hr) 3.85% (7 days)	ASTM D570 at 73 °F (23 °C) and 50% R.H
<b>Elongation at break</b>	4.3%	ASTM D638 at 73 °F (23 °C) and 50% R.H

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	A:B = 4:1 by volume
<b>Coverage</b>	267 - 400 ft <sup>2</sup> /gal at 4 - 6 mils (w.f.t.) per coat. Two (2) coats recommended. Note: Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Allowance must be also made for variation in film thickness or number of coats required to achieve complete coverage of surfaces. Test sections are recommended to establish correct coverage.
<b>Product Temperature</b>	Condition product between 65 °F to 86 °F (18 °C to 30 °C) for at least 24 hours before use.
<b>Ambient Air Temperature</b>	Minimum 60 °F (15 °C) Maximum 86 °F (30 °C) Low temperature and/or high humidity will increase curing time.
<b>Relative Air Humidity</b>	Maximum 75% (during application and curing). Sikagard®-356 W should not be applied when the Relative Humidity is greater than 75 % as curing times will be longer and water will be retained in the film reducing ultimate coating performance.

**IMPORTANT:** Water-borne products require moisture to evaporate from the film to cure to full properties. Provide adequate fresh air ventilation to remove the excess moisture from the curing product.

<b>Dew Point</b>	Substrate must be at least 5 °F (3 °C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the finish. Be aware that the substrate temperature may be lower than the ambient temperature.		
<b>Substrate Temperature</b>	Minimum 60 °F (15 °C) Maximum 86 °F (30 °C)		
<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>	
	68 °F (20 °C)	~60 minutes	
<b>Cure Time</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Full Cure</b>	
	50 °F (10 °C)	~ 5 days	
	68 °F (20 °C)	~ 36 hours	
	86 °F (30 °C)	~ 24 hours	
	<ul style="list-style-type: none"> <li>▪ Curing times will vary according to ambient air and substrate temperatures and relative humidity.</li> <li>▪ Freshly applied materials should be protected from dampness, condensation and water for at least 24 hours.</li> <li>▪ Mechanical, chemical and physical properties will be fully achieved at full cure.</li> </ul>		
<b>Waiting / Recoat Times</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum Time</b>	<b>Maximum Time</b>
	50 °F (10 °C)	24 hours	3 days
	68 °F (20 °C)	6 hours	36 hours
	86 °F (30 °C)	3 hours	24 hours

**Note:** If the Waiting/Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean up and before applying the next coat.

## 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.

## USES

- Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise / fall, Relative Humidity increase / decrease, etc.).
- Typically not recommended for exterior conditions where freeze/thaw conditions may exist.
- Do not apply Sikagard®-356 W to concrete

substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.

- This product is not designed for negative side waterproofing.
- May be incompatible with certain existing coatings. Consult with Sikafloor Technical Service for guidance before specifying or application and carry out trial sections.
- When over-coating existing coatings, compatibility and adhesion testing is recommended. Existing coating must be acknowledged as determining the adhesion and performance of all subsequently applied materials.
- Do not apply to substrates exposed to extreme thermal shock.
- Not recommended for use on surfaces which are exposed to highly corrosive chemicals or heavy

abuse/wear.

- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing product. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Apply product to dry, clean, properly cured and prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not reduce bond of coating or adhere to the surface, affecting the quality of subsequently applied finishes.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mold, grease and surface treatments. Remove loose material mechanically, or high pressure washing. All surfaces to be coated should be clean and free from dampness. Prefill any static cracks with Sikafloor®-150. Dynamic cracks should be routed and filled with appropriate Sika caulk. Consult Sika Technical Service for assistance.

### New Drywall

Minimum level 3-4 finish, prime with Sikafloor®-2570 WB, Sikafloor®-2540 W NA or an acrylic drywall primer.

### Painted Surfaces

Always ensure that the existing paint is fully adhered and sound. Abrade surface using 100 grit screen or paper. All painted surfaces that are abraded require cleaning.

### CMU Block, poured in place concrete

Spalled, flaking or damaged areas should be repaired using compatible materials such as SikaQuick Smooth or Sikadur® Injection Gel. Porous or open masonry substrates should be primed and filled with Sika Thorocoat®-749 Block Filler.

### Overcoating Sikagard®-356 W

Clean off all contamination, lightly abrade with 100 grit and apply Sikagard®-356 W directly.

## MIXING

### Mixing Ratio (A:B) = 4:1 by volume.

Do not hand mix Sikagard®-356 W materials; mechanically mix only.

Pre-mix each component to ensure all soft settling is dispersed, solids are evenly distributed and consistencies are achieved within each component. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least three (3) minutes using a low speed drill (200 - 300 rpm) and Exomixer® or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

## APPLICATION

Sikagard®-356 W can be applied by brush, roller or spray equipment, whichever is the most suitable for the surfaces to be coated or site conditions and limitations. For spray applications, contact spray equipment specialists to determine suitable equipment and for application advise.

Sikagard®-356 W must be applied in a workman-like manner using skilled and trade-qualified applicators. The film thicknesses stated must be produced and complete coverage achieved. Coverage rate will vary depending on the porosity of the prepared substrate.

**Note:** If the Waiting/Recoat time is passed (refer to Technical Data section) the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

## CLEANING OF TOOLS

Once hardened, product can only be removed mechanically.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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](http://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.

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**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

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