

## PRODUCT DATA SHEET

# SikaWall®-4090 Elastomeric Coating

100% acrylic-based smooth elastomeric coating

### PRODUCT DESCRIPTION

Factory-mixed, 100% acrylic-based smooth elastomeric coating that provides excellent flexibility and weatherability.

### USES

Intended for use as a coating on exterior wall surfaces such as concrete, stucco, unit masonry or cementitious, acrylic and elastomeric textured finishes.

### CHARACTERISTICS / ADVANTAGES

- Bridges cracks with over 300% elongation
- Enhances crack resistance
- Resists wind-driven rain
- Breathable to allow water vapor to escape
- Flexibility at low temperatures makes it suitable for all climates

### TECHNICAL INFORMATION

#### Substrate

- Concrete
- Stucco
- Unit Masonry
- Acrylic and Elastomeric Textured Finish
- Cementitious Finish

#### Tensile Strength

METHOD	CRITERIA	RESULT
ASTM D412	Report Value	220 psi (1.5 MPa)

#### Elongation

Ultimate Elongation		RESULT
ASTM D412	Report Value	344%
Elongation Recovery		RESULT
ASTM D412	After 10 Minutes	96.9%
	After 24 Hours	98.4%

#### Tensile Adhesion Strength

METHOD	CRITERIA	RESULT
ASTM D4541	Report Value	210 psi (1.4 Mpa)

<b>Crack Bridging Ability</b>	PR EN1062-7	A. -77°F (-60°C) B. 32°F (0°C) C. 73°F (23°C)	A. 12 mils (0.3mm) B. 19.5 mils (0.5mm) C. 27.5 mils (0.7mm)
<b>Resistance to Weathering</b>	<b>Dirt Pickup Resistance</b> ASTM D3719	6 Months Exposure	Pass - Dc = 94.33 (100 = Best Performance)
<b>Behavior after Artificial Weathering</b>	<b>Accelerated Weathering</b> ASTM G23 - Type D	5000 Hours	Pass
<b>Permeability to Water Vapor</b>	ASTM D1653	Report Value	12 Perms (16 mils DFT)
<b>Freeze-Thaw Stability</b>	ASTM C67	60 Cycles	Pass
<b>Color</b>	<b>Visual Color Change</b> ASTM D1729	5000 Hours	Pass
	<b>Chalking</b> ASTM D4214	5000 Hours	Pass
<b>Salt spray resistance</b>	ASTM B117	300 Hours	Pass
<b>Low Temperature Bend</b>	ASTM D522	Mandrel Bend at -30°F (-34°C)	Pass - 1/8 inch (3mm) mandrel, no cracking
<b>Microbiological Resistance</b>	<b>Algae Resistance</b> ASTM D5589	3 Week Exposure	No growth
	<b>Mildew/Mold Resistance</b> ASTM D3273/3274	28-day Exposure	No growth
<b>Resistance to wind-driven rain</b>	TT-C-555B	98 mph Wind Driven Rain	Pass

## PRODUCT INFORMATION

<b>Packaging</b>	5-gallon pail (19-liters) - 55 lbs (25 kg)		
<b>Shelf Life</b>	Two (2) years, when properly stored in original container.		
<b>Storage Conditions</b>	<ul style="list-style-type: none"> <li>Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C).</li> <li>Do not stack pallets.</li> </ul>		
<b>Color</b>	Available in a wide variety of standard and custom colors.		
<b>Density</b>	<b>METHOD</b>	<b>CRITERIA</b>	<b>RESULT</b>
	ASTM D1475	Report Value	11.2-12.2 lbs/gal (1.34-1.46 kg/L)
<b>Viscosity</b>	ASTM D562	Report Value	127-135 KU
<b>Volatile organic compound (VOC) content</b>	ASTM D3960 (based in part on EPA method 24)	Report Value	<100 g/L (0.834 lbs/gal) less water and exempt solvents
<b>Coverage</b>	At 32 mils wet (16 dry) - 250 ft <sup>2</sup> /pail (23m <sup>2</sup> ) Coverage may vary depending on the texture, porosity and color of the existing substrate. Two coats are recommended to obtain the maximum elastomeric properties		

and for substrates with a moderate texture.

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#### Ambient Air Temperature

- When temperatures less than 40°F (4.5°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry.
- Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).

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#### Drying Time

- Under average conditions 70 °F (21 °C), 50% Relative Humidity
- Coating will typically be dry in 24 hours.
  - Drying time is dependent on humidity, air temperature, sun exposure, surface conditions and film thickness. Lower temperature, higher humidity and application in shaded areas will extend drying time.
  - Protect coating from rain or other precipitation and temperatures less than 40°F (4.5°C) for a minimum of 24 hours and until dry.
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## 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.

### MIXING

Mix the contents of the coating pail with a low speed drill and paddle mixer until thoroughly blended. A small amount of clean, potable water may be added to adjust workability, but is generally unnecessary since a thick consistency is desired.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use.

### SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Cracks or voids must be filled with Sika Thorocoat®-748 or appropriate, compatible material to provide a solid substrate prior to application of SikaWall Elastomeric Coating. Ensure patching material is dry prior to application of coating. If SikaWall-10 Tinted Primer or SikaWall-15 Stucco Prime is used, ensure primer is dry to the touch prior to application of coating.

- **Concrete:** Allow concrete to cure a minimum of 28 days prior to application of primer or coating. Remove all projections and form lines.
- **Unit Masonry:** Allow to cure prior to application of primer or coating. When needed, apply a leveling coat of Sika Facades base coat to provide a smooth surface and minimize the likelihood of mortar joint read through.
- **Stucco:** allow to cure a minimum of 6 days prior to application of primer or coating.

### APPLICATION

**Note: SikaWall Elastomeric Coating is meant to be applied as a two-coat system, to achieve a total wet thickness of 32 mils.**

Apply coating with a brush, 1" (25 mm) nap roller, or spray. Maintain a wet edge at all times during application. Work coating to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. When rolled, ensure roller is completely saturated and keep it loaded, do not roll dry. Allow first coat to dry, before applying a second coat.

### LIMITATIONS

1. Do not use on interior applications, undersides of balconies, below-grade applications, or for immersion service or where there may be hydrostatic water transfer from the backside of the substrate or improperly sealed substrates that are subject to rising dampness or migrating moisture.
2. Color formulas containing organic colorants are susceptible to fading in exterior applications.
3. Do not apply materials to frozen surfaces.
4. Efflorescence of Portland cement based substrates such as concrete, masonry units and stucco may cause staining or discoloration on the surface of the applied coating. Efflorescence is neither caused nor prevented by SikaWall Elastomeric Coating.
5. Samples of SikaWall®-4090 Elastomeric Coating are available for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering. Apply a 4 ft x 4 ft (1.2 m x 1.2 m) test area to verify acceptable color and adhesion before proceeding with any project.

Consult Sika Facades Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications.

## 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

## 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)



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