



## PRODUCT DATA SHEET

# Sikalastic®-515 AC

### Acrylic Roof Coating

#### PRODUCT DESCRIPTION

100% acrylic elastomeric coating for life extension, recover, and enhanced reflectivity of various roof substrates including asphalt, single-ply and metal roofing. Meets or exceeds ASTM D6083 requirements.

#### USES

- Enhance solar reflectivity index (SRI) of existing roofs
- Extend the life of existing roofs
- Economical Roof Recovery
- Excellent adhesion to various roof substrates including asphalt, single-ply and metal roofing.
- Reinforce and waterproof roof seams, penetrations, and vertical transitions, and terminations
- Make spot repairs of existing roofs

#### CHARACTERISTICS / ADVANTAGES

- Fully-adhered, seamless roofing
- High solar reflectivity lowers internal building temperatures and cooling costs
- Prolongs existing roof's life
- Reduces life cycle costs of existing roofs
- ASTM D6083 Type I acrylic
- Extremely fast and easy application
- Long recoat window

#### PRODUCT INFORMATION

<b>Packaging</b>	5 gal. Pail
<b>Color</b>	White
<b>Shelf Life</b>	12 months
<b>Storage Conditions</b>	Store in dry place at temperatures between 40°F and 80°F away from

#### ENVIRONMENTAL INFORMATION

- High solar reflectivity and thermal emittance for
  - Energy saving
  - Reduces heat island effect
  - Environmentally friendly
- Prolongs existing roof life
- Reduced life cycle costs

#### APPROVALS / STANDARDS

- ASTM D6083 Type I
- California Title 24 compliant

moisture, heat, sparks and open flames.

<b>Solid content by mass</b>	69%	ASTM D1644
<b>Solid content by volume</b>	>52%	ASTM D2697
<b>Viscosity</b>	110 KU	ASTM D562

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	250 ± 50 psi	ASTM D2370
<b>Elongation at Break</b>	180 ± 50% (initial) 100 ± 20% (after accelerated weathering)	ASTM D2370
<b>Adhesion in peel</b>	2 pli for SPUR (wet adhesion) Wet adhesion is typically obtained with use of a primer (see primer chart for more details).	ASTM C749, D903
<b>Tear Strength</b>	90 pli	ASTM D624
<b>Low Temperature Bend</b>	Pass 1/2" @ -15°F	ASTM D522
<b>Permeability to Water Vapor</b>	25 perms	ASTM D1653
<b>Water Absorption</b>	9% water swelling	ASTM D471
<b>Behavior after Artificial Weathering</b>	No cracking or checking after 1000 hr	ASTM D4798
<b>Microbiological Resistance</b>	0, no growth	ASTM G21

## SYSTEM INFORMATION

### System Structure

Apply Sikalastic®-515 AC at the below coverage rates for the respective system length. NOTE: The below coverage rates are the minimum required. Rough, irregular or granulated surfaces may require additional coating to meet minimum dry film mils

<b>System Length</b>	<b>Application Rates</b>	<b>Dry Film Thickness</b>
10 year	2 x 24 wet mil coats (2 x 1.5 gal/100 SF)	26 mils
15 year	2 x 24 wet mil coats (2 x 1.5 gal/100 SF) +1 x 16 wet mil coat (1 x 1.0 gal/100 SF)	34 mils
20 year (Metal roof only)	3 x 24 wet mil coats (3 x 1.5 gal/100 SF)	39 mils

## APPLICATION INFORMATION

### Coverage

Typical application is 24 wet mils (1.5 gal per 100 SF).  
Max application rate is 32 wet mils (2 gal per 100 SF).

### Ambient Air Temperature

Apply above 50°F and only when weather conditions allow sufficient time for curing/drying before rain, dew or freezing temperatures. Cool temperatures and high humidity may increase drying time.

### Substrate Temperature

Surface temperatures should be 5°F above the dew point and at least 50°F. In hot climates, apply the base coat in falling temperatures.

### Substrate Moisture Content

Typically substrates should be 4% or less as measured by a Tramex Moisture

Meter. Wet adhesion is typically obtained with use of a primer (see primer chart for more details).

Substrate Pre-Treatment	Substrate	Sikalastic Primer
	Modified bitumen (asphalt bleed blocking)	501
	Acrylic elastomeric coatings	501
	Polyurethane elastomeric coatings	501/502
	Metal manually cleaned (rust inhibitor)*	502
	Concrete, masonry & wood wall transitions	502
	PVC/TPO/FPO/Hypalon**	503
	EPDM***	504

\*Abrade metal surfaces where appropriate  
 \*\*Some surfaces may be manufactured with a lacquer finish, contact Sika if pull/adhesion test yields less than required pli.  
 \*\*\*Use Sikalastic-504 Rinseable Primer to clean the substrate (wash this primer off and allow the substrate to dry). Then complete a pull/adhesion test.

Do not apply over wet insulation or related materials. Existing Roof membranes and substrates should have a moisture scan before applying Sikalastic®-515 AC.

Waiting / Recoat Times	Apply an additional coat once previous coat has cured.
Drying Time	4 - 6 hours depending on temperature and humidity.

## 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.

## LIMITATIONS

- Sikalastic®-515 AC is intended for application only by professionally trained applicators.
- Avoid breathing of vapors or spray application mist.
- Wind, at a sufficient velocity can cause overspray to adjacent areas, buildings or people.
- Not intended for ponding water applications beyond 72 hours
- Do not apply tile or topping slabs on Sikalastic®-515 AC

## ENVIRONMENTAL, HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

1. Applicator is responsible for confirming the roof is in sound condition with an acceptable, fully secured substrate, proper slope to drain, and is readily acceptable for a coating restoration system. Any areas susceptible to ponding water should be resloped to properly shed water from the roof.
2. Tighten and/or replace all existing fasteners. Install crickets and complete all needed sheet metal repairs.
3. Remove all unnecessary and non-functional equipment and debris from the roof.
4. Remove dirt, and foreign material detrimental to adhesion or application of fluid-applied roofing by

thoroughly cleaning all roof surfaces with a high pressure (2,000–2500 psi, 13.79–17.24 MPa) wash. Surfaces contaminated with oil, grease, animal fats, etc. must be removed using tri-sodium phosphate and water, or other solutions as required by job conditions and as permitted by local, state, and federal regulations. Remove all cleaning solutions with plenty of fresh water and allow to dry.

5. Membranes with seam and flashing failures must be repaired using professional and industry standard corrective measures and then detailed.
6. Seal to watertight around projections, machine legs, sign posts, guide wire straps, inside and outside corners, cant strips, gutters, parapet walls, caps, and seal watertight all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof.
7. Clean and seal all areas around drains to watertight.
8. Allow roof and other prepared surfaces to dry completely before proceeding with field priming and/or coating application.
9. Note: Thickness values of cured films are averages and can vary due to surface finish. Rough, irregular or granulated surfaces may require additional coating to meet minimum dry film mils.
10. Always check the weather prior to application. Depending on the ambient, and substrate temperatures, relative humidity, and dew point take extra time and caution when applying the system within 24 to 48 hours of precipitation and/or when raw or freezing temperatures are experienced or anticipated. Do not apply over wet insulation or related materials.
11. Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903).
12. Sikalastic®-515 AC shall extend a minimum of 3" (76.2

mm) beyond the edges of the repair, feathered onto the substrate.

13. Prime all surfaces with the appropriate primer listed above according to the application instructions from the Primer PDS, and allow to dry.

## APPLICATION

Sikalastic®-515 AC may be applied by brush, roller, or spray. Do not apply when temperatures are below 50 °F (10 °C) or when precipitation is in the forecast within 48 hours. In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance.

### Detailing

Always start with details using Sikalastic®-515 AC or Sikalastic®-515 FG and Sika® Flexitape Heavy or similar reinforcing skim including: round projections, machine legs, sign posts, guide wire straps, inside and outside, corners, gutters, parapet walls, penetrations and similar areas. Repair any damaged metal and caulk and seal watertight all screws, seams, transitions, terminations, penetrations, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof. On metal roofs with standing seams, apply Sikalastic®-515 FG sealing them completely. Metal roof projects requiring a warranty should be pre-inspected by a Sika Representative for metal seam detailing. Make certain that all walking pads are appropriately and adequately secured. Use Sikalastic®-515 FG to caulk all edges of walking pads.

### Field Application

Apply Sikalastic®-515 AC at the specified rate. Best practice is to back roll the base and intermediate coats to provide uniform coverage. Back rolling the finish or top coat is not needed unless the roof surface is unusually rough. Rough surfaces such as Mod-Bit may require additional coating to achieve the required uniform dry film thickness per warranty or project specifications. Use Sikalastic-501 Primer when applying directly over mineral cap-sheets, mod-bit or other asphalt type surfaces for "bleed-blocking" capability. Apply Sikalastic-501 Primer at a rate of 12 -16 mils (0.75 -1.0 gal per 100 SF) depending on substrate roughness.

The application rates mentioned above are based on averaged weather conditions. Higher humidity and/or

colder temperatures will slow the drying time of Sikalastic®-515 AC. In colder and/or more humid conditions, apply Sikalastic®-515 AC at thinner application rates for faster drying times (this will also increase the number of required coats).

Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903). Coating may be applied by brush, roller, or airless spray equipment. In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance. Apply appropriate primer to the substrate according to the application instruction from the Primer PDS, and allow to dry.

Roof coatings should be properly maintained following industry standards of care and maintenance including annual inspections by qualified roofing contractors. All required maintenance or repairs should be undertaken immediately.

## 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

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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

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**Product Data Sheet**

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