

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.

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, 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

Packaging	5 gal. Pail
Shelf Life	12 months
Storage Conditions	Store in dry place at temperatures between 40°F and 80°F away from moisture, heat, sparks and open flames.

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
- CRRC listed

Color	White	
Solid content by mass	69%	ASTM D1644
Solid content by volume	>52%	ASTM D2697
Viscosity	110 KU	ASTM D562

TECHNICAL INFORMATION

Tensile Strength	250 ± 50 psi	ASTM D2370				
Elongation at Break	180 ± 50% (initial) 100 ± 20% (after accelerated weathering)	ASTM D2370				
Adhesion in peel	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				
Tear Strength	90 pli	ASTM D624				
Solar Reflectance	<table border="1"> <tr> <td>0.83</td> <td>Initial</td> </tr> <tr> <td>0.69</td> <td>3 Year</td> </tr> </table>	0.83	Initial	0.69	3 Year	(ASTM C-1549) (White)
0.83	Initial					
0.69	3 Year					
Thermal Emittance	<table border="1"> <tr> <td>0.90</td> <td>Initial</td> </tr> <tr> <td>0.91</td> <td>3 Year</td> </tr> </table>	0.90	Initial	0.91	3 Year	(ASTM C-1371) (White)
0.90	Initial					
0.91	3 Year					
Solar Reflectance Index	<table border="1"> <tr> <td>104</td> <td>Initial</td> </tr> <tr> <td>86</td> <td>3 Year</td> </tr> </table>	104	Initial	86	3 Year	(ASTM E-1980) (White)
104	Initial					
86	3 Year					
Low Temperature Bend	Pass 1/2" @ -15°F	ASTM D522				
Water Absorption	9% water swelling	ASTM D471				
Permeability to Water Vapor	25 perms	ASTM D1653				
Microbiological Resistance	0, no growth	ASTM G21				
Behavior after Artificial Weathering	No cracking or checking after 1000 hr	ASTM D4798				

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

System Length	Application Rates	Dry Film Thickness
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	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	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).
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. Applicator is responsible for completing a moisture scan of all roof surfaces to receive Sikalastic®-515 AC. All wet insulation should be removed and replaced.
3. Tighten and/or replace all existing fasteners. Install crickets and complete all needed sheet metal repairs.
4. Remove all unnecessary and non-functional equipment and debris from the roof.
5. Remove dirt, and foreign material detrimental by thoroughly cleaning all roof surfaces with a pressure wash (2,000–2500 psi, 13.79–17.24 MPa). 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.
6. Membranes with seam and flashing failures must be repaired using professional and industry standard corrective measures and then detailed.
 7. Seal to watertight around projections, machine legs, sign posts, guide wire straps, inside and outside corners, cant strips, gutters, parapet walls, caps, all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof.
 8. Clean and seal all areas around drains to watertight.
 9. Allow roof and other prepared surfaces to dry completely before proceeding with field priming and/or coating application.
 10. 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.
 11. 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.
 12. Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903).
 13. Sikalastic®-515 AC shall extend a minimum of 3" (76.2 mm) beyond the edges of the repair, feathered onto the substrate.
 14. Prime all surfaces with the appropriate primer according to the application instructions from the Product Data Sheet, 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. For all details use Sika® Flexitape Heavy embedded in Sikalastic®-515 AC or Sikalastic®-515 FG , or Sika® Joint Tape SA including: round projections, drains, 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, drains and any areas where water could enter through the roof. On metal roofs with standing seams, apply Sika® Joint Tape SA or Sika® Flexitape Heavy embedded in Sikalastic®-515 FG sealing them completely. Metal roof projects requiring a warranty should be preinspected 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 at a rate of 12 -16 mils (0.75 -1.0 gal per 100 SF) depending on substrate roughness. Apply directly over mineral cap-sheets, mod-bit or other asphalt type surfaces for "bleed-blocking" capability.

The application rates mentioned 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.

Product Data Sheet

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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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