

PRODUCT DATA SHEET

Sikalastic®-515 FG US

Acrylic Roof Flashing Mastic

PRODUCT DESCRIPTION

100% acrylic elastomeric mastic for easier detailing and flashing with the Sikalastic-515 AC system. Acrylic coatings provide life extension, recover, and enhanced reflectivity of various roof substrates including asphalt, single-ply and metal roofing. Can be used with Sika® Flexitape Heavy for ideal 3-coursing applications. Meets or exceeds ASTM D6083 requirements.

USES

- Reinforce and waterproof roof seams, penetrations, and vertical transitions, and terminations
- Make spot repairs of existing roofs
- Smooth out details such as bolts and fasteners
- Easier detailing of transitions and penetrations
- Extend the life of existing roofs
- Economical Roof Recovery
- Excellent adhesion to various roof substrates including asphalt, single-ply and metal roofing with listed primers.

CHARACTERISTICS / ADVANTAGES

- Fully-adhered, seamless roofing with Sikalastic-515 AC
- Thicker body allows for easier detailing
- 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

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

Packaging	3.5 gal. Pail	
Color	White	
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.	
Solid content by weight	66%	ASTM D1644
Solid content by volume	54%	ASTM D2697
Volatile organic compound (VOC) content	48 g/l	

TECHNICAL INFORMATION

Shore A Hardness	70	ASTM D2240
Tensile Strength	310 ± 50 psi	ASTM D2370
Elongation at Break	200 ± 25% (initial) 175 ± 25% (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	130 lbf/in	ASTM D624
Low Temperature Bend	Pass 1/2" Mandrel Bend @ -15°F	ASTM D522
Permeability to Water Vapor	47 perms	ASTM D1653
Water Absorption	8% Water Swelling	ASTM D471
Behavior after Artificial Weathering	No Cracking or Checking after 1000 hours	ASTM D4798
Microbiological Resistance	Zero, No Growth (Fungi Resistance)	ASTM G21
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). Do not apply over wet insulation or related materials. Existing Roof membranes and substrates should have a moisture scan before applying Sikalastic®-515 FG US.	

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***	503 & 504

*Abrade metal surfaces where appropriate

**Some surfaces may be manufactured with a lacker 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 apply Sikalastic-503 Primer to 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 FG US.

Waiting / Recoat Times	Apply an additional coat of Sikalastic-515 AC once previous coat has cured.
Drying Time	Product will skin over in 4 - 6 hours and develop a full cure in 24 - 36 hours depending on temperature and humidity.

SUBSTRATE PREPARATION

- Inspect all areas to receive Sikalastic®-515 FG US and make all necessary repairs.
- All surfaces should be properly sloped to drains. Any areas susceptible to ponding water should be resloped to properly shed water from the roof.
- All surfaces must be clean, dry and free of dirt, grease, oil, or any other contaminants that would interfere with or prohibit a proper bond.
- Membranes with seam and/or flashing failures must be repaired by standard roofing practices.
- Tighten and/or replace all existing fasteners.
- Install crickets and complete all needed sheet metal repairs.
- Prime all surfaces with the appropriate primer listed above.

APPLICATION

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. Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903). Sikalastic®-515 FG US may be applied by brush, roller, or spatula. 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. Apply Primer to the substrate according to the application instruction from the Primer PDS, and allow to dry. Apply/flash Sikalastic®-515 FG US with or without Sika® Flexitape Heavy according to project specifications on the transitions of 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 US sealing them completely. Make certain that all walking pads are appropriately and adequately secured. Use Sikalastic®-515 FG US to caulk all edges of walking pads.

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

LIMITATIONS

- Sikalastic®-515 FG US is intended for application only by professional 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
- To avoid dew point conditions during application, substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.
- Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter meter.
- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- Use sunglasses with UV filter when applying highly reflective Sikalastic®-515 FG US White.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic®-515 FG US. See Sikalastic® 624 WP or Sikalastic®-644 Lo-VOC Product Data Sheet.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product

solutions). Surface irregularities may reflect through the cured system.

- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic® RoofPro systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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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