

# SIKALASTIC® 500 SYSTEMS SILICONE ROOF SYSTEM

BUILDING TRUST



## 20 YEAR SYSTEM COVERAGE FOR MOD BIT/BUR SYSTEMS

### DESCRIPTION

The Sikalastic®-500 systems for MOD BIT/BUR is a high volume solids elastomeric silicone coating system that provides superior weather-proofing and high UV resistance over a variety of roof substrates.

### BASIC USES

Sikalastic®-500 system is a tough, durable application designed to extend the life of a roof providing protection from premature weathering and moisture intrusion, in a wide range of environments. It is effective as a protective membrane to coat an entire roof, to use for spot repair, and provide additional protection for flashing when integrated with a reinforcement fabric.

### FEATURES & BENEFITS

- Prolongs the life of an existing roof membrane while helping to lower internal temperatures and reduce cooling costs
- Hydrophobic – highly resistant to water penetration
- High tensile strength and abrasion resistant
- Excellent adhesion to a variety of roof substrates
- Ease of application - extremely fast and simple to install
- Can be used to reinforce and seal seams, penetrations, transitions, terminations, and spot repairs
- Slows degradation caused by normal weathering, aging, and UV rays
- Economical - extends the life of your existing roof

### WARRANTY

Sika offers two Limited Warranties:

1. Material Only Warranty - No Charge
2. Labor & Material Warranty - For Approved Applicators. Fees Apply.

\*Consult a Sika representative

\*See Warranty System Sheet for Dry Film Thickness Requirement

### REQUIRED MATERIALS

- Sikalastic®-501 Primer
- Sikalastic®-500
- Sikalastic®-500 Flash
- Sika Flexitape Heavy or Sika®Joint Tape SA

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The Sikalastic®-500 provides tenacious adhesion with an existing roof system to form a monolithic membrane.

### SYSTEM DESCRIPTION

The Sikalastic®-500 can be described by using two comprehensive products to cover and protect your roof:

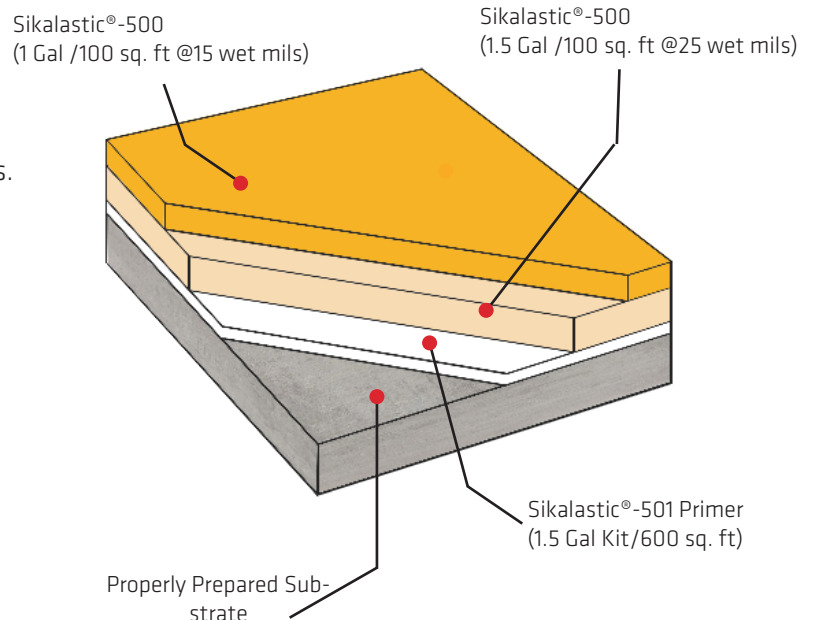
- (1) Sikalastic®-500 primer, if applicable, is a two component, epoxy based primer with unique penetrating, and asphaltic bleed blocking characteristics - quick re-coat times and low viscosity.
- (2) Sikalastic® 500 is a versatile, low VOC, single-component, high solids, liquid silicone coating designed for use as either a base coat or a top coat for asphaltic roof system.

### STORAGE & HANDLING

Keep containers closed, and store in a dry, cool place away from heat, sparks, open flame, and moisture. Keep material stored above 65°F (18°C) and on wood pallets off concrete floors. Open containers should be blanketed with dry nitrogen before resealing.

### ADHESION TEST

To ensure successful application of the Sikalastic®-500 always perform several adhesion tests (ASTM D-903) with the Sika coating to ensure the roof substrate will accept the coating. Do not proceed with coating system without prior testing.



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### PRE-INSPECTION

Pre-inspect roof for necessary repairs before application of coating system. Inspection should include but not limited to the following:

- HVAC flashings
- Water leakage
- Ponding water
- Substrate damage or disrepair
- Parapet wall conditions
- Proper drainage/obstructions
- Wet or damp insulation
- Copings and flashings
- Sign or display anchorage
- Sleepers & pitch pockets
- Seams, terminations, transitions, and reglets

### SURFACE PREPARATION

(1) Remove all unnecessary and non-functional equipment and debris from the roof. (2) 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 - 2,500 psi wash. Surfaces contaminated with oil, grease, animal fats, etc. must be removed using trisodium phosphate and water, or other solutions as required by job conditions and as permitted by local and federal regulations. Remove all cleaning solutions with plenty of fresh water and allow drying. (3) Membranes with seam and flashing failure must be repaired using traditional and professional corrective measures and then detailed with Sikalastic®-500 Flash. If necessary, use Sika Flexitape Heavy 3oz firm, embedded into the Sikalastic®-500 Flash. On seams, terminations, and transitions, apply one pre-coat of Sikalastic®-500 at a minimum rate of 1.5 gallon per 100 sq. ft. @ 25 wet mils. Sikalastic®-500 must extend a minimum of 3 inches beyond the edges of the subject area. (4) Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, etc. should be flashed using Sikalastic®-500. Seal watertight all gutters, parapet walls and caps. Repair any damaged metal. Caulk and seal watertight all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof. (5) Clean and seal all areas around drains watertight. (6) Allow roof and other prepared surfaces to dry completely before proceeding with field priming and/or coating application. **Note:** Thickness values of cured lm are averages and can vary due to finish of surface.

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 2 to 6 hours of precipitation and/or when raw or freezing temperatures are experienced or anticipated. Do not apply over wet insulation or related materials.

### COATING APPLICATION

Apply Sikalastic®-502 Primer to the substrate at a theoretical coverage rate of 1/3 gal/100 sq. ft. @ 5 wet mils, and allow to dry. apply Sikalastic®-500 top coat at the rate of 1½ gal/100 sq. ft. @ 25 wet mils. Finally, apply another topcoat of Sikalastic®-500 at 1 gal/100 sq. ft. @ 15 wet mils to yield a total coverage of 40 mils (minimum requirement for 20 year material warranty).

If applying higher mil thickness of Sikalastic®-500, do not exceed 3½ gallons per square per application. Thicker applications could cause blisters and/or pinholes. Care should be taken to avoid sagging, pinholes, and runs of the coating on vertical, horizontal, and slanted surfaces. Application rate may need adjusting if topcoat starts to sag on verticals or higher slopes. If adjusted, allow base coat and/or top coat to dry 24 hours inbetween coats. Additional coats maybe required to achieve required mil thickness. Sikalastic®-500 Accelerator for topcoat may be used for faster cure times and to avoid pinholes and/or blisters.

**Protection:** After completion of application, do not allow traffic on coated surfaces for a period of at least 48 hours at 75° F and 50% R.H., or until completely cured.

### EQUIPMENT

Spray Applied - See Sika's Spray Application Guide.  
Dipped and Rolled - Brushes of various sizes and a 3/8" nap roller should be used when applying on smooth surfaces built up roofing and modified bitumen substrates.

#### Sikalastic®-500 System Typical Data / Physical Properties

Colors	Gray, Charcoal and Tan.
Shelf Life	8 Months
Curing (75°F-24°C, 50% R.H.)	6-8 Hours
Hardness Shore A, ASTM D-2240	55 ± 2%
Tear Resistance, ASTM D-624	45 lbs./in. (7.88 n/m)
Tensile Strength, ASTM D-412	300 psi (2.07 MPa)
Elongation, ASTM D-412	200 ± 15%
Specific Gravity	1.34
% Solids by Weight, ASTM D-2369	98%
% Solids by Volume, ASTM D-2697	98%
Viscosity at 77°F (25°C)	8,000 - 11,000 cps
VOC, ASTM D-2369-81	48g/L (0.40lbs/gal)
Reflectivity	0.88
Emmissivity	0.91
SRI	112