

SIKALASTIC® 500 SYSTEMS SILICONE ROOF SYSTEM

BUILDING TRUST



20 YEAR SYSTEM COVERAGE FOR AGED EPDM/HYPALON SYSTEMS

DESCRIPTION

The Sikalastic®-500 system for EPDM / HYPALON 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 from premature weathering and moisture intrusion in a wide range of environments. It is effective as a protective membrane to coat an entire roof, or to use for spot repair. The Sikalastic®-500 system provides tenacious adhesion with an existing roof system to form a monolithic membrane.

FEATURES & BENEFITS

- Prolongs the life of an existing roof membrane while helping to lower internal temperatures and reducing 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 to make 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 your Sika representative

*See Warranty System Sheet for Dry Film Thickness Requirement

REQUIRED MATERIALS

- Sikalastic®-504 Primer
- Sikalastic®-500
- Sikalastic®-500 Flash
- Sika Flexitape Heavy or Sika®Joint Tape SA
- Polyurethane caulking

SYSTEM DESCRIPTION

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

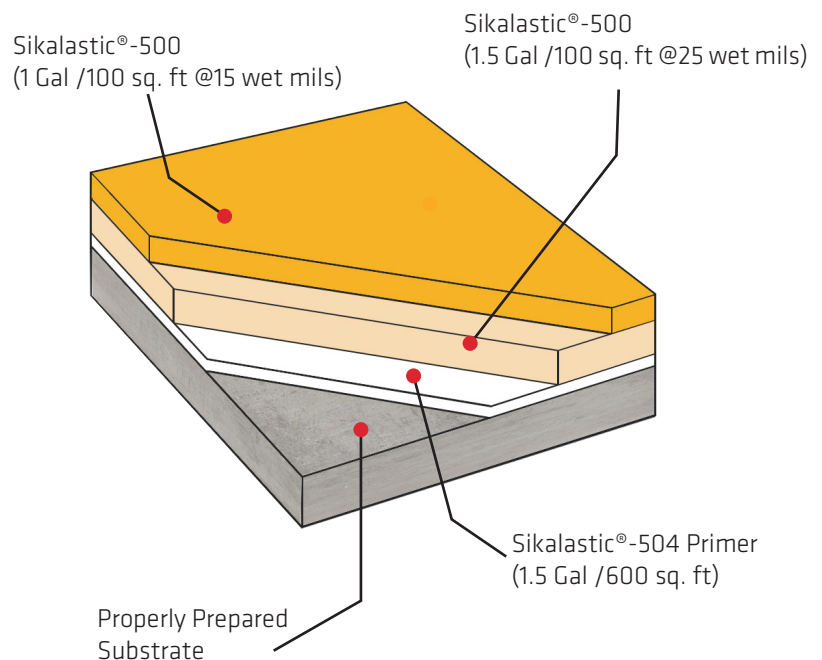
1. Sikalastic®-504 primer, a single component, liquid applied low viscosity spray-able liquid primer used to pre-treat black EPDM rubber roof membranes prior to power washing and application of a roof coating.
2. Sikalastic®-500 System is a versatile, low VOC, single- component, high solids, liquid silicone coating designed for use as a base coat or as a top coat on aged EPDM/Hypalon roof systems.

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. In-spection should include but not be 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) (13.79 MPa - 17.24 MPa) 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. Remove all cleaning solutions with plenty of fresh water in accordance with local regulations and allow to dry. (3) Membranes with seams, terminations, transitions, penetrations, and flashing failure must be repaired by manufacturer's specification using appropriate professional roofing practices. Use Sikalastic®-504 Primer on all areas. Primer should be applied with an industrial garden pump sprayer at a theoretical coverage rate of 1 gal per 500sq.ft. The roof substrate must then be carefully pressure washed with water using an approximate working pressure of 2,000 psi depending on condition of the roof to remove any remaining dirt, dust, chalking, or loose materials. (4) Repaired seams, flashings and other corrected areas should then be detailed with Sikalastic®-500 Flash or with one pre-coat of Sikalastic®-500 at a minimum rate of 1 gal per 100 sq. ft. @ 16 wet mils. Sikalastic®-500 shall extend a minimum of 3 inches beyond the edges of the repair, feathered onto the substrate. For added strength, consider adding Sika Flexitape Heavy into the Sikalastic®-500 Flash. Apply Sikalastic®-500 topcoat at the rate of 1½ gal/100 sq. ft. @ 25 wet mils. Finally, apply a 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 gal/100 sq. ft. per application. This could result in blisters and/or pinholes. Extra precautions should be taken on vertical, horizontal, and angled surfaces to avoid sagging, pinholes, and running of the coating.

Application rate may need to be adjusted if top coat begins to sag on vertical or angled surfaces. If adjusted, allow coating to dry at least 24 hours before making subsequent coating applications. Additional coats may be required to achieve desired mil thickness. Sikalastic®-500 Accelerator for top coat may be used to accelerate curing process and reduce chance of pinholes and/or blisters. Actual required application rate will depend on desired thickness, system, and length of warranty. For low areas that accumulate ponding water, properly prepare the surface and apply an appropriate liquid roof patch to level the recessed area prior to coating. Sikalastic®-500 Accelerator is also available for faster curing times.

COATING APPLICATION

Apply Sikalastic®-504 Primer to the substrate at a theoretical coverage rate of 1/3 gal/100 sq. ft. @ 5 wet mils, and allow to dry. Then apply Sikalastic®-500 top coats at the rate of 1½ gal/100 sq. ft. @ 25 wet mils, to yield a total of 25 wet mils of coverage (minimum requirement for 10 year material warranty).

If applying higher mil thickness of Sikalastic®-500. Do not exceed 3½ gal per square) per application. This 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 to prevent sagging. 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 in-between 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 such as EPDM/ Hypalon.

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 Specific Gravity	200 ± 15% 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