

PRODUCT DATA SHEET

Sikalastic®-500 Flash

Single Component Silicone Roof Flashing

DESCRIPTION

Sikalastic®-500 Flash is an enhanced high solids silicone formula that can be used in conjunction with a variety of liquid coatings and a variety of roof membranes. It is designed to create a watertight liquid flashing for intricate roofing areas and details. With its low VOC's, the single-component, moisture-cure liquid flashing is environmentally friendly. This high performing high solids silicone is durable, reflective and UV resistant and has excellent vertical hang and performs well under ponding water.

USES

- Can be used for spot repairs
- Reinforce seams, flashings and penetrations
- Seal joint and penetration repairs for solar and air conditioning systems

CHARACTERISTICS / ADVANTAGES

- Can be used over a variety of roofing substrates including modified bitumen, built-up roofing, metal, spray polyurethane foam, wood, concrete, and a variety of systems.
- Its fast curing time helps the applicator save time.
- Can be used as part of a complete cool roof restoration system for the system.
- It also can be used for repairs of existing systems, roof repairs such as flashings, penetrations and seams

PRODUCT INFORMATION

Composition	moisture cured Silicone
Packaging	3.5 gal. (13.2 L) pail
Shelf life	12 months
Storage conditions	Prevent unauthorized access. Store in original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.
Colour	White
Solid content by mass	94 % (+/- 2) (ASTM D-2697)
Solid content by volume	94 % (+/- 2) (ASTM D-2697)

TECHNICAL INFORMATION

Shore A hardness	45–55	(ASTM D-2240)
Tensile strength	300 psi	(ASTM D-412)
Tensile strain at break	200 %	(ASTM D-412)
Tear strength	45 lb./in.	(ASTM D 624)

SYSTEMS

System structure	Coverage 4 gal/100 sq.ft
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 36 degrees F (2°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- 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.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur.
- Use sunglasses with UV filter when applying highly reflective Sikalastic®-500 Flash White.
- Do not apply cementitious products, such as tile

mortar directly onto Sikalastic®-500 Flash. 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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE 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 (2,000–2500 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.
3. Membranes with seam and flashing failure must be repaired using traditional and professional corrective measures and then detailed.
4. Seal watertight all round 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.
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 film 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.

APPLICATION

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, spatula or trowel. Do not apply when temperatures are below 40 °F (4 C) or when precipitation is in the forecast within 48 hours. To avoid pin holes and blistering Sikalastic®-500 Flash should not be applied at a rate no thicker than 250 wet mils (6.35 mm) in one application.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

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The information, and, in particular, the recommendations relating to the application and end-use of Sika products are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommenda-

tions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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