BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-500 Flash

Single Component Silicone Roof Flashing

PRODUCT DESCRIPTION

Sikalastic®-500 Flash is an enhanced high solids silicone formula that can be used in conjunction with Sikalastic® -500 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.

USES

- Seal metal roof fasteners
- Spot repairs
- Reinforce seams, flashings and penetrations
- Seal joint and penetration repairs for solar and air conditioning systems
- Overhead and vertical applications

CHARACTERISTICS / ADVANTAGES

- Can be used over a variety of roofing substrates including modified bitumen, built-up roofing, metal, spray polyurethane foam, wood, concrete, ect.
- Its fast curing time helps the applicator save time
- Can be used as part of a complete cool roof restoration system
- Repair of existing roof systems, such as flashings, penetrations and seams
- Durable high solids, high performing Silicone
- UV resistant and reflective
- Excellent vertical sag resistance
- Performs well under ponding water
- VOC compliant

PRODUCT INFORMATION

Chemical Base	moisture cured Silicone	
Packaging	3.5 gal. (13.2 L) pail	
Color	White	
Shelf Life	12 months	
Storage Conditions	Keep containers closed and in a dry, cool place away from excessive heat, sparks, open flame, and moisture. Store material at 40°F - 95°F.	
Volatile organic compound (VOC) content	33.8 g/l	
Solid content by mass	94 % (+/- 2)	(ASTM D-2697)
Solid content by volume	94 % (+/- 2)	(ASTM D-2697)

TECHNICAL INFORMATION

Testing	45–55	(ASTM D-2240)
Tensile Strength	300 psi	(ASTM D-412)
Elongation at Break	200 %	(ASTM D-412)
Tear Strength	45 lb./in.	(ASTM D-624)

APPLICATION INFORMATION

Coverage	4 gal./100 ft²
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.
Relative Air Humidity	80 % R.H. max.
Dew Point	Not for use on surfaces with condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.
Substrate Temperature	41 °F (5 °C) min. / 140°F (60°C) max.
Substrate Moisture Content	≤ 4 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).

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

- To avoid dew point conditions during application, the air and substrate temperature must be at least 5 °F (3 °C) above dew point
- Minimum ambient and substrate temperature during application and curing of material is 41 °F (5 °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 silicone resins
- 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 21 - 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 andmoisture. Observe temperature storage and conditioning requirements
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure
- 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
- 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, surface irregularities may reflect through the cured system (consult a Sika Representative for guidance on various product solutions)
- 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®-500 Flash 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

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental,

toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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 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
3. Membranes with seam and flashing failure must be repaired using traditional and professional corrective measures and then detailed.
4. Seal to watertight condition around 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 to watertight condition.
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 temperatuers, 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.

MIXING

Before application, mix Sikalastic® 500 Flash using a mechanical mixer at a slow speed. Mix thoroughly until a homogeneous mixture and color are atttained. Do not dilute under any circumstance.

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 41 °F (5 °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 thicker than 250 wet mils (6.35 mm) in one application
- In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance
- 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. Apply Primer to the substrate according to the application instruction from the Product Data Sheet, and allow to dry
- Apply Sikalastic®-500 Flash 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
- Metal roofs with standing seams, apply Sika Flexitape Heavy or Sika Joint Tape SA with Sikalastic®-500 Flash sealing them completely. Make certain that all walking pads are appropriately and adequately secured

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**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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