

## PRODUCT DATA SHEET

# Sikaflex<sup>®</sup>-102 EverFlash Membrane

One-component, gun-grade, window and door flashing, sealing and adhering compound

### PRODUCT DESCRIPTION

This multi-purpose material is based on a special moisture-cured polyurethane that offers an accelerated curing time.

### USES

- Floor moldings and door sills
- Wood or metal window and door frames
- Seal exterior perimeter of window nailing flanges
- CMU, poured in place or precast concrete
- Sheathing joints
- Gaskets at openings in walls or floors for ducts, piling, etc.
- Sealing perimeter rough openings of wall penetrations

### CHARACTERISTICS / ADVANTAGES

- Excellent weathering and water resistance
- UV Stable
- Non-corrosive
- Non-Staining
- Non-Shrinking
- Can be used for multiple situations (static cracks less than 3/4", 90° details, sealing fasteners, buck embedment & flashing)
- High durability
- Excellent unprimed adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin
- Can be used with direct applied stucco applications
- Compatible with Sikasil WS295, Sikasil WS290, Sikaflex 1a, Sikaflex 15LM, SikaHyflex 150LM
- Single source system warranty available when used in conjunction with Sikaflex, SikaHyflex or Sikasil weatherseal or perimeter sealants, Sikagard Air Barrier Systems, or Sika BMI Stucco Systems
- Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended)
- Fast Cure system (can apply perimeter sealant in as quickly as 2 hours)
- Allows for same day installation of windows and doors
- Compatible with Sikalastic DeckPro and RoofPro systems

### PRODUCT INFORMATION

<b>Packaging</b>	20 oz. sausage
<b>Color</b>	White
<b>Shelf Life</b>	One year in original, unopened containers.
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C).

Condition material to 65–75 °F before using.

## TECHNICAL INFORMATION

Shore A Hardness	40–45	(at 73 °F (23 °C) 50 % R.H.) (ASTM D-2240)
Tensile Strength	225 psi	(ASTM D-412) 73 °F (23 °C) 50 % R.H.
Elongation at Break	600 %	(ASTM D-412) 73 °F (23 °C) 50 % R.H.
Elastic Recovery	90%	
Adhesion in Peel	<b>Lap Shear Strength:</b> 165psi	(ASTM D-1002, modified glass substrate 73F/23C 50% RH)
Chemical Resistance	Good resistance to water, weak acids, weak alkalis, sewerage, mineral oils, vegetable oils, fats, fuels. (Not resistant to organic solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for specific data.	
Resistance to Weathering	Excellent	
Service Temperature	-40–170 °F (-40–75 °C).	

## APPLICATION INFORMATION

Ambient Air Temperature	40 °F to 100 °F. Sealant should be installed when joint is at midrange of its anticipated movement.	
Substrate Temperature	40 °F to 100 °F. Sealant should be installed when joint is at midrange of its anticipated movement.	
Curing Rate	Tack-Free Time (TT-S-00230C)	1–2 hrs depending on climate
	Final Cure	3 to 5 days

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All surfaces must be sound, clean, dry, and free of frost, oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. A roughened surface will also enhance bond.

### Detailing Joints, Seams, Cracks and Penetrations

1. Before application, fill or repair any cracks larger than 3/4 inch before application with appropriate repair material.
2. Fill and tool all cracks, joints and seams that measure up to 3/4 inch in width with Sikaflex®-102 EverFlash Membrane. Keep the nozzle in the sealant; continue on with a steady flow of sealant preceding the nozzle and avoid overlapping of sealant to eliminate entrapment of air.
3. Apply a thick bead of Sikaflex®-102 EverFlash Membrane to all sheathing joints, seams and cracks. For plywood knots, checks, cracks, separations or surface irregularities, apply a spot of Sikaflex®-102

4. Apply and tool a cant bead of Sikaflex®-102 EverFlash Membrane around wall penetrations and fasteners.
  5. Use a dry putty knife, trowel or spatula to tool and spread the product. Spread 1-inch beyond seams at each side of the window (or door) to a thickness of 12–15 mils.
- Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Consult Technical Service at 1-800-933-SIKA for additional information on priming.

### APPLICATION METHOD / TOOLS

Recommended application temperatures: 40–100 °F. For cold weather application, condition material to 65–75 °F before using.

### Detailing and Waterproofing Rough Openings

1. Apply a thick bead of Sikaflex®-102 EverFlash Membrane to all inside corners, cracks, joints and seams within the rough opening.
2. Use a dry putty knife, trowel or spatula to tool and spread the product 1 inch beyond seams on each side

- at a thickness of 12–15 mils.
- Starting at the top, apply a thick bead of Sikaflex®-102 EverFlash Membrane in a zigzag pattern to the structural wall surrounding the rough opening. This may be applied immediately after detailing steps (1) and (2) above.
  - Spread the wet product to create a monolithic flashing membrane which surrounds the rough opening and extends 4 to 6 inches over the face of structural wall if required. Apply and spread additional product as needed to create a monolithic flashing membrane free of voids or pin holes.
  - If installing a buck, allow treated surfaces to skin, embed the buck in Sikaflex®-102 EverFlash Membrane and caulk all 90° details from the buck to the existing flashing (except the interior face of the buck)
  - Apply the Sikaflex®-102 EverFlash Membrane in a zigzag pattern over the buck and spread material to create a monolithic flashing membrane over the entire buck, tying it into the existing flashing previously applied. (Note – Leave the interior face of the window buck exposed)
  - Allow treated surfaces to skin before installing windows, doors and other wall assembly.

#### **Stucco Application over Sikaflex®-102 EverFlash Membrane**

- Broadcast 16/20 mesh, crack angular sand to refusal into the Sikaflex®-102 EverFlash Membrane immediately after application and before product skins over.
- Allow Sikaflex®-102 EverFlash Membrane with sand to cure before application of stucco system assembly.
- It is recommended to apply stucco as soon as possible after the Sikaflex®-102 EverFlash Membrane with sand has cured. It is required that the stucco be applied within 14 days after initial Sikaflex®-102 EverFlash Membrane and sand application.

#### **Tooling and Finishing**

Tool as required with a dry putty knife, trowel or spatula.

#### **Removal**

In case of spills or leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state, and federal regulations. In case of emergency, call chemtrec 1-800-424-9300.

#### **Over Painting**

Allow 5 day cure at standard conditions when using Sikaflex®-102 EverFlash Membrane in total water immersion situations and prior to painting.

### **LIMITATIONS**

- Allow 5 day cure at standard conditions when using Sikaflex®-102 EverFlash Membrane in total water immersion situations and prior to painting.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the membrane.
- Use opened cartridges the same day.
- Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- Avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- The ultimate performance of Sikaflex®-102 EverFlash Membrane depends on proper application, good design and proper preparation of joint surfaces.
- Not for use in expansion joints.
- Heavier substrates may require additional support during the cure period.
- Do not use in contact with bituminous/asphaltic materials.

### **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**

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.

## 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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