

Technical Data Sheet

# Sikaflex®-219LM

## High Performance, Low-Modulus Elastomeric Industrial Polyurethane/Sealant

### Properties:

Colors:	White, tan, MB bronze		
Weight/gallon (ASTMD1475):	10.3lb/gallon		
Application temperature range:	40°F to 100°F sealant should be installed when joint is at mid-range of its anticipated movement.		
Service temperature range:	-40°F to 170°F		
Tack-free time (TT-S-00230C):	6 to 8 hours at 73°F and 50% relative humidity. 3 hours tack-free to touch. 7 to 10 days final cure.		
Recovery:	> 90%		
Shore A hardness (ASTMD2240)	20 +/- 5 (cured and tested after 21 days at 73°F)		
Tensile strength (ASMT D412): (maximum elongation)	Tensile stress	125 psi	
	Modulus of Elasticity	25%	20 psi
		50%	35 psi
		100%	50 psi
Peel adhesion (TT-S-00230C): Substrate	Peel Strength	Adhesion Loss	
			Aluminum
	Glass	25 lb.	0%
	Concrete	30 lb.	0%
Elongation at break (ASTMD412): (21 days)	700% at break		
Weathering resistance:	Excellent		
Chemical resistance:	Good resistance to water, diluted acids, diluted alkalines, and residential sewage. Consult Technical Service for specific data.		
Maximum expansion and contraction:	100% +/- 50% of average joint width		

70°F/50% R.H.

### Areas of Application:

- Use for sealing fabrication details that are subject to structural movement.
- Sealing glass to wood, aluminum, anodized aluminum.
- Use between logs in log homes.
- Sealing critical SSR endlaps, exterior joints around roof curb, roof joints, skylights, smoke vents, air conditioning equipment, curtain walls joints, and perimeter caulking windows and doors.
- Sealing exterior lap joints of grain storage bins and sealing the base to the concrete pad.
- Capable of +100%/-50% joint movement.
- Sealing bedding of mullions, panels and frames.
- Sealing of exposed and concealed joints of aluminum, steel, coated metals, wood.

### Storage:

Sikaflex®-219LM cartridges and uni-pacs, properly stored in cool, dry conditions, have shelf lives of 15 months.

### Description:

Sikaflex®-219 LM is a low-modulus, high-performance, 1-component polyurethane-based sealant. It is a moisture-cured, non-sag elastomeric sealant. Meets Federal Specification TT-S-00230C, Type II, Class A; ASTM C-920, Type S, Grade NS, Class 25; Federal Specification for silicones - TT-S-001543 A, Type non-sag. Packaged in 10.3-fl-oz, moisture-proof cartridges and 20.0-fl-oz uni-pacs.

### Advantages Offered By Sikaflex®-219LM:

- Premium-grade, high-performance, single-component, ready to use sealant.
- Eliminates time, effort, and equipment for mixing, filling cartridges, preheating and clean-up
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance.
- Adheres, in most cases without a primer, to aluminum, siliconized polyester-painted metals, and other metals, glass, wood, tiles, fiber-reinforced plastics, and similar materials.
- When applying over KYNAR 500® we recommend priming the painted surface with Sika-Primer 210T to achieve strong adhesion.
- Certified to meet USDA standards for indirect food contact.
- Odorless, non-staining.
- Can be painted over with water-, oil-, and rubber-based paints. Since some paints dry slowly and the surface may remain slightly tacky, a preliminary test is essential.
- Excellent resistance to aging, weathering and road salt.
- Exhibits good adhesion to aluminum, FRP, steel, wood, GALVALUME®, ZINCALUME®, and aluminized steel without attacking the metal coating.
- Exhibits high recovery making it ideal for sealing dynamically moving joints.

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### How to Use:

#### Substrate:

Clean, dry, free of oil, grease, and of sound quality. Thoroughly remove all loose particles or residues of color, splashes, etc. Clean surface with a strong jet of compressed air, sandblast, solvent.

#### Priming:

Pretest substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion. Please refer to the Surface Preparation Guidelines for specific application information.

#### Application:

Recommended application temperatures: 40°F to 110°F. For cold-weather application, store units at approximately 70°F; remove just prior to using. Make sure joint is frost-free. Cut tip to joint size. Puncture airtight seal. Install with hand or power operated gun. For best performance, Sikaflex®-219LM should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction. To facilitate tooling, wet pointing tool or finger with soap solution.

### Limitations:

- Do not apply on frozen surfaces, through standing water or on wet surfaces.
- Do not apply over silicones.
- Do not apply on surface where constant temperatures shall exceed 170°F.
- Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm).
- Allow 1 week cure time (75°F/50% R.H.) when using Sikaflex-219 LM in total water immersion situations.
- Do not use in joints deeper than 1/2 inch; minimum depth is 1/4 inch.
- Will not adhere to polyethylene, polypropylene and teflon.
- Avoid contact with alcohol and alcohol containing solvents during cure.

#### Chemical Resistance:

- For best results, use opened cartridges the same day.
- When applying sealant, avoid air entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.

### CAUTION:

#### Combustible:

This product contains xylene. Keep away from open flame and high heat. Use only with adequate ventilation. Avoid prolonged breathing of vapors.

#### Irritant:

Avoid skin and eye contact. Wash hands thoroughly after use. Use NIOSH approved organic vapor respirator, safety goggles, and chemical-resistant gloves recommended.

#### First Aid:

In case of skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 15 minutes, and call a physician. Wash clothing before re-use. Discard contaminated shoes.

#### Clean Up:

Uncured Sikaflex may be removed from tools with solvent. Cured sealant is only removable mechanically. In case of spillage, collect, absorb, and dispose of in accordance with applicable local, state, and federal regulations. Keep containers tightly closed and in upright position to prevent spillage and leakage.

### IN CASE OF EMERGENCY CALL CHEMTREC, 1-800-424-9300

Consult Material Safety Data Sheets and Surface Preparation Guidelines available through SikaFax: 740-375-0063

Visit our website at <http://www.sikasolutions.com>

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**KEEP OUT OF REACH OF CHILDREN**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

**KEEP CONTAINER TIGHTLY CLOSED**

**FOR INDUSTRIAL USE ONLY**

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