

Sikaflex® -219 LM

High Performance, Low-Modulus Elastomeric Polyurethane Sealant

Typical Product Data

Chemical base	1-C polyurethane
Color	White, Aluminum Gray, Log Home Tan, Deep Bronze, Limestone
Cure mechanism	Moisture Cure
Density (uncured)	10.3 lb/gal
Non-sag properties	Non-Sag
Application temperature	40°F - 100°F (4°C - 38°C)
Tack free time ¹ (CQP 019-1)	4 hours
Curing speed	See diagram
Shore A-hardness (ASTM D 2240)	20
Tensile strength (ASTM D 412)	125 psi
Elongation at break (ASTM D 412)	700%
Movement accommodation factor (ASTM C 719)	+100/-50%
Service temperature	-40°F - 190°F (-40°C - 88°C)
Shelf life (storage below 80°F (27°C))	12 months

¹ 73°F (23°C) / 50% r.h.

Description

Sikaflex® -219 LM is a one-component, low-modulus, high performance, moisture curing polyurethane sealant with excellent adhesion to aluminum, FRP, steel, wood, masonry and most plastics with proper surface preparation. Conforms to Federal Specification TT-S-00230C, Type II, Class A, ASTM C-920, Type S, Class 100/50, Grade NS, AAMA 808.3 verified. Exhibits excellent recovery making it ideal for sealing applications requiring high joint movement capability.

Product Benefits

- Cures to form a tough, durable, elastic material 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.
- Odorless, non-staining.
- May be painted.
- 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
- High joint movement capability of +100/-50

- AAMA 808.3 Verified for Exterior Perimeter Sealing Compounds.

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.
- An effective sealant for use in Exterior Insulation Finish Systems (EIFS).
- Sealing critical SSR endlaps, exterior joints around roof curb, roof joints, skylights, smoke vents, air conditioning equipment, curtain wall joints, and installation and perimeter sealing of windows and doors.
- Sealing exterior lap joints of grain storage bins and sealing the base to the concrete pad.

Industry



Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, label and Safety Data Sheet which are available on request at tsmh@us.sika.com. Nothing contained in any Sika 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 Data Sheet, label and Safety Data Sheet prior to product use.

- Sealing/bedding of mullions, panels and frames.
- Sealing of exposed and concealed joints of aluminum, steel, coated metals and wood.
- This product is suitable for experienced professional users only.
- Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Cure Mechanism

Moisture Cured

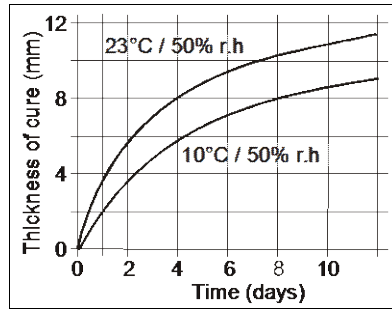


Diagram 1: Curing speed Sikaflex®-219LM

Chemical Resistance

Good resistance to water, various dilute acids and alkalis, vegetable oil, mineral oil, salt solution and kerosene. Not resistant to organic solvents, gasoline, paint thinner, strong acids and strong alkalis. Joint design may affect long term durability. The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

Surface preparation

Surfaces must be clean, dry and free from all traces of grease, oil and dust. As a rule, the substrates must be prepared in accordance with the instructions given in the current Sika Pre-Treatment Chart.

Application

Recommended application temperatures: 40°F to 100°F. For cold weather application, store units at approximately 70°F; remove just prior to using. Cut tip to joint size. Puncture airtight seal. Install with hand or power operated gun. For best performance, product should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction.

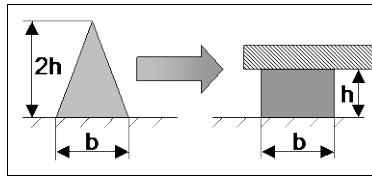


Figure 1: Recommended bead configuration

Tooling and finishing

Tooling and finishing must be carried out within the tack free time of the sealant. Finishing agents or lubricants must be tested for suitability/compatibility.

Removal

Uncured Sikaflex®-219 LM may be removed from tools and equipment with mineral spirits or another suitable solvent. Follow solvent manufacturer's instructions for use and warnings. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleanser and water. **Do not use solvents on skin!**

Overpainting

Sikaflex®-219 LM can be overpainted after becoming tack free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint over time despite positive compatibility tests.

Further Information

To contact Sika Corporations' Technical Services Department please send an e-mail to tsmh@us.sika.com.

Copies of the following publications are available on request:

- Safety Data Sheet
- Sika Pre-Treatment Chart

Packaging Information

Cartridge	300 ml
Unipack	600 ml

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests only. Actual measured data may

vary due to circumstances beyond our control.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Limited Material Warranty

Sika Corporation warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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