



TBP Converting, Inc.
Sikaflex- 15 LM PDS



Sikaflex[®]-15 LM

High-performance, low-modulus elastomeric sealant

Description	Sikaflex-15 LM is a low-modulus, high-performance, 1-component, polyurethane-based, non-sag elastomeric sealant. Meets Federal Specification TT-S-00230C, Type II, Class A; ASTM C-920, Type S, Grade NS, Class 100/50, use T, NT, G, M; Federal Specification for silicones - TT-S-001543 A, Type non-sag. Tested in accordance with ASTM C-1382 for use in EIFS systems.
Where to use	<ul style="list-style-type: none"> ■ Excellent for moving joints in vertical applications. ■ Suitable for use between similar as well as dissimilar materials. ■ Typical applications include joints in concrete panel and wall systems, around window and door frames, reglets, flashing, etc. ■ Exceptional sealant choice for high-rise and facade applications where high movement capability is required. ■ An effective sealant for use in Exterior Insulation Finish Systems (EIFS).
Advantages	<ul style="list-style-type: none"> ■ Low modulus of elasticity. ■ Easy and ready to use. ■ Eliminates time, effort, waste, and equipment clean-up. ■ Cures to a durable, flexible consistency. ■ Exceptional cut and tear resistance. ■ Stress relaxation properties. ■ Excellent adhesion. ■ Bonds to most construction materials without a primer. ■ Paintable with water-, oil- and rubber based paints. ■ Excellent resistance to aging, weathering. ■ Jet fuel resistant. ■ Proven in tough climates around the world. ■ Non-leaching. ■ Capable of +100% / -50% joint movement.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

Shelf Life	10.3 fl. oz. cartridges	15 months
	20 fl. oz. uni-pac sausages	15 months
	5 gal. pails	4 months
	55 gal. drums	4 months
Storage Conditions	Store at 40°-75°F. Condition material to 65°-75°F before using.	
Colors	White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan. Special colors on request (min. volume).	
Application Temperature	40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement.	
Service Range	-40° to 170°F (-40° to 75°C)	
Curing Rate	Tack-free time	3 to 6 hours (TT-S-00230C)
	Tack-free to touch	3 hours
	Final cure	7 to 10 days
Recovery	>80%	
Shore A Hardness (ASTM D-2240)	21 day	25 ± 5
Tensile Properties (ASTM D-412)	21 day	
	Tensile Stress	125 psi (.86 MPa)
	Elongation at Break	700%
	Modulus of Elasticity	25% 20 psi (.13 MPa)
		50% 35 psi (.24 MPa)
		100% 50 psi (.34 MPa)
Adhesion in Peel (TT-S-00230C)		
Substrate	Peel Strength	Adhesion Loss
Aluminum	25 lb.	0%
Glass	25 lb.	0%
Concrete	30 lb.	0%
Weathering Resistance	Excellent	
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Not normally	



- Two-hour UL fire rating when used with Ultra Block®.

Linear Feet of Sealant per Gallon

Depth

Inches	1/4	1/2	3/4	1	1 1/4	1 1/2
1/4	308.0					
1/2	154.0	77.0				
3/4	102.7	51.3	34.2			
1	77.0	38.5	25.7	19.3		
1 1/4	61.6	30.8	20.5	15.4	12.3	
1 1/2	51.3	25.7	17.1	12.8	10.3	8.6

Coverage	10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 in. x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 in. x 1/4 in. joint.
Packaging	Disposable 10.3 fl. oz., moisture-proof composite cartridges, 24/case; and uni-pac sausages 20 fl. oz., 20/case. Available on special order: 5 gal. pails, 55 gal. drums.

Width

How to Use

Surface Preparation

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matters must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

Priming

Priming is typically not necessary. Most substrates only require priming if testing indicates a need, i.e. due to excessively porous substrate. Consult Sikaflex Primer Technical Data Sheet or Technical Service for complete information as to primer requirements.

Note: Most Exterior Insulation Finish Systems (EIFS) manufacturers recommend the use of a primer. When EIFS manufacturer specifies a primer or if on-site bond testing indicates a primer is necessary, Sikaflex 429 primer is recommended. On-site adhesion testing is recommended with final system prior to the start of a job.

Application

Recommended application temperatures, 40°-100°F. For cold-weather applications, pre-conditioning units to approximately 70°F is recommended. Only apply sealant to clean, sound, dry, and frost-free substrates. Sikaflex-15 LM should be applied into joints when joint slot is at mid-point of its designed expansion and contraction.

Place nozzle of gun into bottom of the joint filling entire joint. Keep nozzle in the sealant, and continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment.

Avoid overlapping of sealant to eliminate entrapment of air.

Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

Limitations

- Allow 1 week cure at standard conditions when using Sikaflex-15LM in total water immersion situations and prior to painting.
- Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol, and other solvent cleaners, during cure.
- When overcoating, an on site test is recommended to determine compatibility.
- Do not apply when moisture-vapor-transmission condition exists from the substrate, as this can cause bubbling within the sealant.
- Use opened cartridges and uni-pac sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- Light colors can yellow slightly if exposed to direct gas fired heating elements prior to the formation of initial skin.
- The ultimate performance of Sikaflex-15 LM depends on good joint design and proper application. With joint surfaces properly prepared and sealed, movement of +100% -50% can be tolerated.

Caution

Combustible

Keep away from open flames and high heat. Contains xylene; avoid breathing vapors. Use with adequate ventilation.

Irritant

Avoid skin and eye contact. Use of NIOSH approved organic vapor respirator, safety goggles, and chemical-resistant gloves recommended. Remove contaminated clothing and shoes.

First Aid

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

Clean Up

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika 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 Technical 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.

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