

Product Data Sheet
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Sikaflex-15 LM

Sikaflex®-15 LM

High-performance, low-modulus elastomeric sealant

SEALANT-WATERPROOFING & RESTORATION INSTITUTE

Issued to: Sika Corporation
Product: Sikaflex® 15LM
C719: Pass Ext:+100% Comp:-50%

Substrate: Mortar, Aluminum, Glass
[molar substrate primed with Sika Primer 420]

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SEALANT VALIDATION
www.swrionline.org

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, A, O, 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, common roofing detail applications, etc. ■ Exceptional sealant choice for high-rise and facade applications where high movement capability is required. ■ 2- and 3-hour UL Fire Rated Joint System Nos. FF-S-0007, FF-S-0037, FW-S-0015, FW-S-0018, HW-S-0076, HW-S-0095, WW-S-0011 and WW-S-0060. ■ 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.
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Not normally for fully immersed conditions. Consult Technical Service for specific data.
Packaging Coverage	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)
RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	10.1 fl. oz. cartridges 20 fl. oz. uni-pac sausages 5 gal. pails 55 gal. drums	12 months 12 months 6 months 6 months
Storage Conditions	Store at 40°-95°F. Condition material to 65°-75°F before using.	
Colors	White, Colonial White, Aluminum Gray, Limestone, Black, Dark Bronze, Capitol Tan, Off-White, Beige, Almond, Coping Stone, Aluminum Stone, Medium Bronze, Redwood Tan, Hartford Green and Stone. 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 Tack-free to touch Final cure	2 to 6 hours (TT-S-00230C) 3 hours 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%
	Stress at 100%	50 psi (.34 MPa)
Adhesion in Peel (TT-S-00230C)	Substrate	Peel Strength
	Aluminum	25 lb.
	Glass	25 lb.
	Concrete	30 lb.
Adhesion Loss	0%	
Weathering Resistance	Excellent	
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Not normally for fully immersed conditions. Consult Technical Service for specific data.	



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10.1 oz Cartridge: Yield in Linear feet				
Depth		1/4"	3/8"	1/2"
Width	1/4"	24.3		
	3/8"	16.2	10.8	
	1/2"	12.1	8.1	6.1
	3/4"	8.1	5.4	4.0
	1"			3.0
	1.25"			2.4
	1.5"			2.0

20 oz Sausage: Yield in Linear feet				
Depth		1/4"	3/8"	1/2"
Width	1/4"	48.1		
	3/8"	32.1	21.4	
	1/2"	24.1	16.0	12.0
	3/4"	16.0	10.7	8.0
	1"			6.0
	1.25"			4.8
	1.5"			4.0

1 gallon: Yield in Linear feet				
Depth		1/4"	3/8"	1/2"
Width	1/4"	307.9		
	3/8"	205.3	136.8	
	1/2"	153.9	102.6	77.0
	3/4"	102.6	68.4	51.3
	1"			38.5
	1.25"			30.8
	1.5"			25.7

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. A roughened surface will also enhance bond. 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.

Tooling and Finishing

Tool sealant to ensure full contact with joint walls and remove air entrapment. 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.

Removal

Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, remove spilled or excess product and placed in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

Over Painting

Allow 1 week cure at standard conditions when using Sikaflex-15 LM in total water immersion situations and prior to painting.

Limitations

- Allow 1 week cure at standard conditions when using Sikaflex-15 LM 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 if exposed to direct gas fired heating elements.
- 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.
- Do not use in contact with bituminous/asphaltic materials.
- Joint sealant needs to be recessed in properly designed traffic bearing joint

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