

PRODUCT DATA SHEET

Sikaflex[®]-15 LM

High Performance, low-modulus elastomeric sealant

PRODUCT 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.

USES


- 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).

CHARACTERISTICS / ADVANTAGES

- Low modulus of elasticity
- Easy and ready to use
- Eliminates time, effort, waste, and equipment clean-up
- High elasticity – cures to a tough, durable, flexible consistency with exceptional cut and tear resistance
- Stress relaxation

- Very good adhesion – bonds to most construction materials without a primer
- Very good resistance to weathering
- Proven in tough climates around the world
- Urethane-based, suggested by EPA for radon reduction
- Can be painted
- Jet fuel resistant
- Proven in tough climates around the world
- Non-leaching
- Movement capability of +100/-50% (ASTM C 719)

APPROVALS / STANDARDS



SEALANT-WATERPROOFING & RESTORATION INSTITUTE

Issued to: Sika Corporation
Product: Sikaflex[®] 15LM

C719: Pass Ext:+100% Comp:-50%

Substrate: Mortar, Aluminum, Glass
(mortar substrate primed with Sika Primer 429)

Validation Date: 2/27/14 – 2/26/19

No. 214-SIK817

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SEALANT VALIDATION

www.swrionline.org

PRODUCT INFORMATION

Packaging	10 fl. oz. cartridge, 12 cartridges per box 20 fl oz. foil pack, 20 foil packs per box 5 gallon pail 55 gallon drum
Color	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).
Shelf Life	Sikaflex®-15 LM has a shelf life of 12 months for cartridges and foil packs and 6 months for pails and drums from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.
Storage Conditions	Sikaflex®-15 LM shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +40 °F and +95 °F (+4 °C and +35 °C). Condition material to 65°-75°F before using.

TECHNICAL INFORMATION

Shore A Hardness	~25 (after 21 days) ~25(after 28 days)	(ASTM C 661) (ISO 868)												
Tensile Stress at Specified Elongation	~50psi at 100% elongation	(ASTM D 412)												
Elongation at Break	~700%	(ASTM D 412)												
Elastic Recovery	>80%													
Adhesion in Peel	<table border="1"> <thead> <tr> <th>Substrate</th> <th>Peel Strength</th> <th>Adhesion loss</th> </tr> </thead> <tbody> <tr> <td>Aluminium</td> <td>25 lbs.</td> <td>0%</td> </tr> <tr> <td>Concrete</td> <td>30 lbs.</td> <td>0%</td> </tr> <tr> <td>Glass</td> <td>25 lbs.</td> <td>0%</td> </tr> </tbody> </table>	Substrate	Peel Strength	Adhesion loss	Aluminium	25 lbs.	0%	Concrete	30 lbs.	0%	Glass	25 lbs.	0%	(ASTM C 794)
Substrate	Peel Strength	Adhesion loss												
Aluminium	25 lbs.	0%												
Concrete	30 lbs.	0%												
Glass	25 lbs.	0%												
Movement Capability	+100/-50%	(ASTM C 719)												
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Not normally for fully immersed conditions. Consult Technical Service for specific data.													
Resistance to Weathering	0 (no cracks)	(ASTM C 793)												
Service Temperature	-40 °F min. / +170 °F max. (-40 °C to +77 °C)													

APPLICATION INFORMATION

Coverage

10.1 oz Cartridge: Yield in Linear Feet

Width	Depth	Depth	Depth
	¼"	⅜"	½"
¼"	24.3		
⅜"	16.2	10.8	
½"	12.1	8.1	6.1
¾"	8.1	5.4	4.0
1"			3.0
1¼"			2.4
1½"			2.0

20 oz Cartridge: Yield in Linear Feet

Width	Depth	Depth	Depth
	¼"	⅜"	½"
¼"	48.1		
⅜"	32.1	21.4	
½"	24.1	16.0	12.0
¾"	16.0	10.7	8.0
1"			6.0
1¼"			4.8
1½"			4.0

1 Gallon: Yield in Linear Feet

Width	Depth	Depth	Depth
	¼"	⅜"	½"
¼"	307.9		
⅜"	205.3	136.8	
½"	153.9	102.6	77.0
¾"	102.6	68.4	51.3
1"			38.5
1¼"			30.8
1½"			25.7

Ambient Air Temperature

+40 °C min. / +100 °F max. (+4 °C to +38 °C), min. 5 °F (3 °C) above dew point temperature
Sealants should be installed when substrates are at mid-range of their anticipated movement.

Substrate Temperature

+40 °C to +100 °F (+4 °C to +38 °C)
Sealants should be installed when substrates are at mid-range of their anticipated movement.

Cure Time

Tack-free time 2 to 6 hours (TT-S-00230C)
Tack-free to touch 3 hours
Final cure 7 to 10 days

APPLICATION INSTRUCTIONS

SUBSTRATE 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.

APPLICATION METHOD / TOOLS

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 over-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

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or 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 label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Product Data Sheet

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