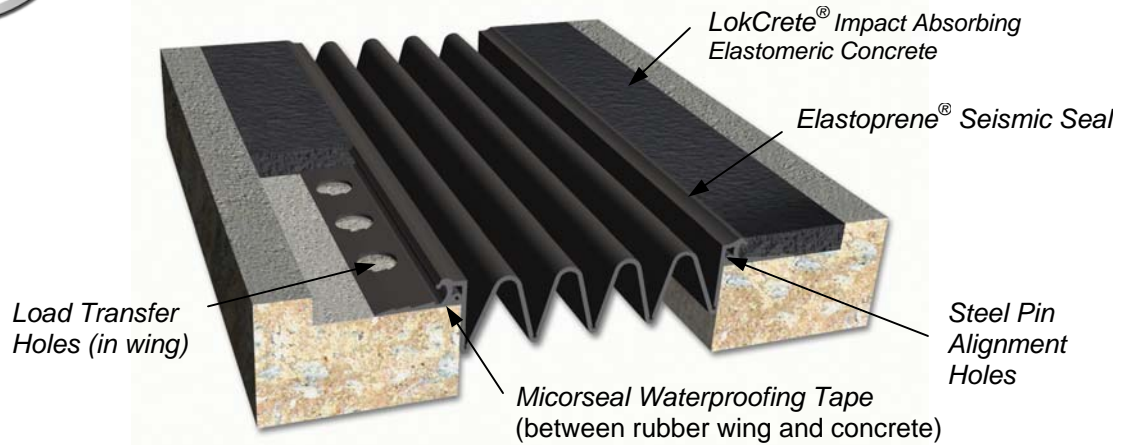




# MM<sup>®</sup> LSS Expansion Joint

## LokCrete Seismic Sealing System



### DESCRIPTION

LSS is a waterproof expansion joint system with impact absorbing elastomeric concrete that bonds a continuous Elastoprene<sup>®</sup> membrane seal to the concrete deck. This creates a high performance monolithic sealing system that prevents water intrusion.

### FEATURES

- LokCrete<sup>®</sup> - hard, elastic, abrasion resistant embed material that flexes with deck loads.
- 2-part polyurethane with chemical cross-linking technology eliminates the need for primers.
- System is integral with the concrete deck.
- Seal profiles can be heat welded or adhesive rubber bonded.
- Low profile seal design accommodates post tension cables and conduit.
- Capable of thermal, seismic, vertical and lateral shear movement.
- Resistant to UV, ozone, acid rain, most chemicals and extreme temperatures.

### SPECIAL FEATURES

- NO PRIMERS REQUIRED – bonds directly to concrete, aluminum and steel.
- Steel pin reinforced splice connections.
- Fire Barriers – MM Systems expansion joint systems are available with appropriate 2 - 4 hour fire ratings.

### LIMITATIONS

- Concrete blockouts must be properly formed, finished and have sound substrate.
- Surfaces must be dry, free of any laitance, curing agents or foreign matter.
- Install temperature must be 40°F and rising.
- Requires a cover plate over the membrane seal.

### BASIC USE

LSS is designed for sealing and waterproofing wide expansion joint openings in parking structures and other open-air structures (stadiums, plaza decks, etc.) requiring seismic and lateral shear movement capability.

### PACKAGING

“Easy-mix” pre-measured packaging insures consistent field performance.

LokCrete is supplied in 5 gallon plastic buckets. Parts A, B and C are pre-measured and self-contained within the bucket. (500 cubic inch yield.)

LokCrete Membrane Seals are supplied in longest possible lengths shipped on pallets or spools.

### STORAGE

All materials should be stored in a cool, dry location 60-80°F (15-27°C) prior to use.

### COLOR OPTIONS

LokCrete<sup>®</sup> elastomeric concrete available in UV stable Black with matching Black Elastoprene<sup>®</sup> Seismic Seal.

### PRECAUTIONS

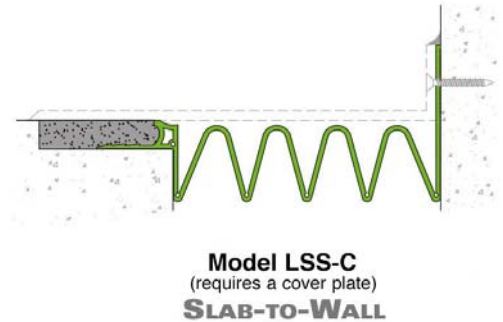
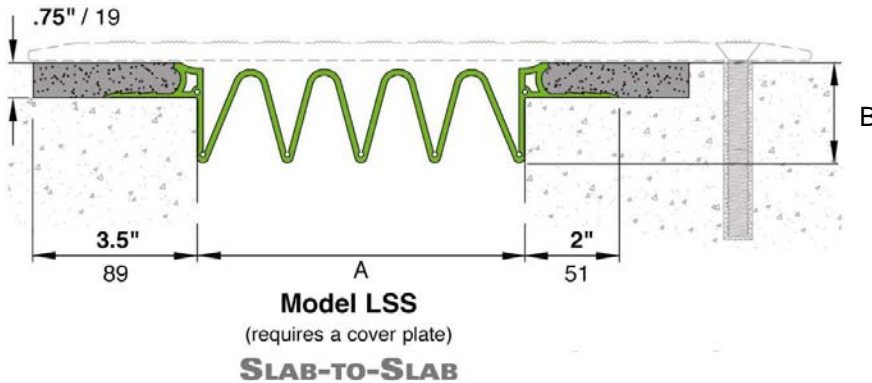
Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact. Use with adequate ventilation. In case of eye contact, immediately flush (low pressure) with lukewarm water. In case of skin contact, immediately wash skin with soap and water. Read and follow labels and Material Safety Data Sheet before use.

# MM<sup>®</sup> LokCrete Seismic System

## SELECTION GUIDE

Model Number	Movement Range		Install Range "A"				Joint Opening "A"				Depth "B" Clearance			
			Min.		Max.		Thermal Min.		Thermal Max.				Safety Max.	
LSS-300	<b>2.5</b>	64	<b>0.75</b>	19	<b>1.50</b>	38	<b>0.50</b>	13	<b>2.00</b>	51	<b>3.00</b>	76	<b>1.00</b>	25
LSS-400	<b>3.5</b>	89	<b>1.00</b>	25	<b>2.00</b>	51	<b>0.75</b>	19	<b>3.00</b>	76	<b>4.25</b>	108	<b>1.00</b>	25
LSS-1600	<b>14.0</b>	356	<b>2.75</b>	70	<b>8.00</b>	203	<b>2.00</b>	51	<b>10.0</b>	254	<b>16.0</b>	406	<b>2.25</b>	57

Dimensions are in **inches** (bold) and millimeters. Lateral Shear capability equal to values listed under Movement Range. Add "C" after the model number when specifying slab-to-wall condition (example: LSS-C-1600). Contact MM Systems for cover plate styles and sizes.



## LIMITED WARRANTY

MM Systems warrants the LokCrete Seismic Sealing System to be free of defects in material and conform to technical data listed. We make no warranty as to color or appearance. Since methods of application can affect performance and on site conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Systems Certified Contractor.

## PHYSICAL PROPERTIES

Physical Property	Test Method	Value
<b>Binder Only</b>		
Tensile Strength	ASTM D412	4750 psi
Ultimate Elongation	ASTM D412	10%
Hardness, Shore D	ASTM D2240	78 +/-5
Tear Resistance	ASTM D624	200 pli
Water Absorption, max	ASTM D570	3%
Heat Shrinkage, max	ASTM D1299	2%
Compression Set	ASTM D395	48%
<b>Binder &amp; Aggregate</b>		
Compressive Strength	ASTM D695	2750 psi
Resilience @ 5% deflection	ASTM D695	95%
Impact Resistance -20°F (-29°C)	ASTM D420	No Cracks
Adhesion	ASTM D421	Concrete Failure
Cure Time / Open to traffic		2- 6 Hours
Cure Time / Chemical Resistance		7 Days

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values while actual field results may vary.

## INSTALLATION

- 1) Remove and repair all unsound concrete in and around the blockout. All spalls must be repaired with compatible patching material.
- 2) Prepare substrate by sandblasting. The blockout must be clean and dry prior to installation.
- 3) Factory directional changes – splice seals into place (insert steel splice pins to align and reinforce butt splice connections).
- 4) Insert membrane seal into joint opening.
- 5) Lift wing of LMS Seal and remove the release liner from Microseal Waterproofing Tape.
- 6) Pour Part A into clean 5-gallon bucket. Pour in Part B mixing for 1 minute with a drill and jiffy-paddle type mixer. Immediately and gradually blend in Part C (aggregate). Mix all 3 components for 3 minutes.
- 7) Immediately pour LokCrete into blockout and trowel surface.
- 8) Install temperature must be 40° F and rising and 5° F above the dew point. Maximum allowable concrete moisture content is 5%.
- 9) Install in accordance with detailed installation guide.

MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.

Current Issue 10-16-09



Spec Data

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