



MM[®] STR Series Expansion Joint

StadiaSeal Tread and Riser Sealing System

SPECIALTY DATA

MM Systems Corp. • 50 MM Way, Pendergrass, GA 30567 • 866.506.6929 • www.mmsystems.com

DESCRIPTION

STR is a waterproof expansion joint sealing system with a continuous high-density micro-cell expanded foam rubber seal with durable ethylene vinyl acetate polymers added to facilitate heat welded transitions. The STR rubber seal will remain flush during the compression cycle. STR is bonded in place with a high strength epoxy adhesive creating a watertight seal.

BASIC USE

STR expansion joint is a vertical & horizontal sealing system for stadiums, arenas, plaza decks, parking structures and bridges that require a watertight seal. The system accommodates varying and irregular joint openings, vertical slab offsets and stair tread & riser transitions.

FEATURES

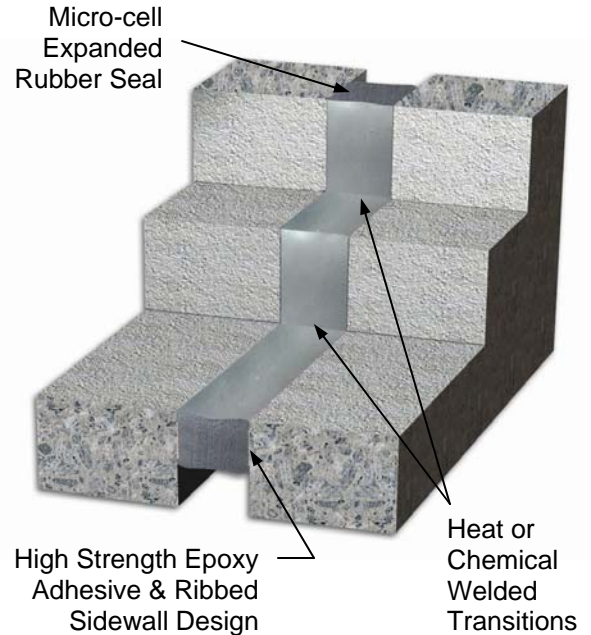
- Waterproof sealing system not requiring blockouts.
- Ideal for seating bowl areas (treads and risers), stair towers, around elevator shafts and slab-to-wall conditions.
- Designed to accommodate complex miters and changes in direction.
- Microcell expanded weldable foam rubber seal.
- Tenacious thixotropic epoxy anchoring system bonds to concrete, aluminum and steel.
- Capable of thermal and vertical movement.
- Resistant to UV, ozone, acid rain, most chemicals and extreme temperatures.

SPECIAL FEATURES

- Difficult transition splicing simplified through heat or chemical welded seams.
- Designed for varying and irregular expansion joint openings.
- Fire Barriers - MM expansion joint systems are available with 2-4 hour fire protection ratings.

LIMITATIONS

- Horizontal pedestrian applications beyond 2-inch joint openings may require a cover plate.
- Joint opening substrate must be sound, dry, and free of any laitance, curing agents or foreign matter.
- Install temperature must be 40°F and rising.



PACKAGING

MM Systems High Strength Epoxy Adhesive – two-part epoxy adhesive supplied in pre-measured plastic containers.

Elastoprene[®] rubber seals are supplied in longest possible lengths shipped in cartons or pallets.

STORAGE

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

COLOR OPTIONS

STR is only available in UV stable gray.

PRECAUTIONS

Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact with epoxy adhesive. 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. If swallowed, do not induce vomiting. Drink several glasses of water and call physician or poison control center. Read and follow labels and Material Safety Data Sheet before use.

MM[®] StadiaSeal / STR Series Expansion Joint

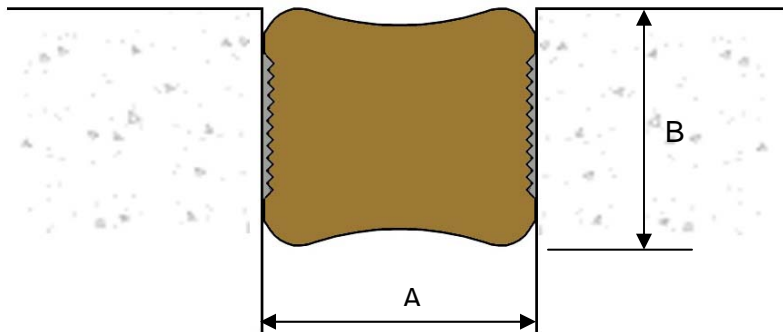
SELECTION GUIDE

Model Number	Total Movement		Joint Opening "A"						Installation Width				Seal Depth "B"	
			Min.		Mid.		Max.		Min.		Max.			
STR-100	0.50	13	0.750	19	1.00	25	1.250	32	1.00	25	1.250	32	1.50	38
STR-150	0.75	19	1.125	29	1.50	38	1.875	48	1.50	38	1.875	48	1.50	38
STR-200	1.00	25	1.500	38	2.00	51	2.500	64	2.00	51	2.500	64	1.50	38
STR-250	1.25	32	1.875	48	2.50	64	3.125	79	2.50	64	3.125	79	3.00	76
STR-300	1.50	38	2.250	57	3.00	76	3.750	95	3.00	76	3.750	95	3.00	76
STR-350	1.75	44	2.625	67	3.50	89	4.375	111	3.50	89	4.375	111	3.00	76
STR-400	2.00	51	3.000	76	4.00	102	5.000	127	4.00	102	5.000	127	3.00	76
STR-450	2.25	57	3.375	86	5.00	127	5.625	143	4.50	114	5.625	143	3.00	76
STR-500	2.50	64	3.750	95	6.00	152	6.250	159	5.00	127	6.250	159	3.00	76
STR-550	2.75	70	4.125	105	7.00	178	6.875	175	5.50	140	6.875	175	3.00	76
STR-600	3.00	76	4.500	114	8.00	203	7.500	191	6.00	152	7.500	191	3.00	76

Dimensions are in **inches** (bold) and millimeters. Depth "B" is at full compression.

Contact MM Systems for larger sizes based on project design requirements.

Note: Certain applications may require the use of a cover plate.



PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Value
Expanded Micro-cell Rubber		
Tensile strength	ASTM D3575	120 psi
Ultimate elongation	ASTM D3575	250%
Tear Resistance	ASTM D624	21.5 pi
Water Absorption (by weight)	ASTM D1056	1%
Density Average	ASTM D1056	3.0 pcf
Epoxy Adhesive		
Tensile strength	ASTM D638	1800 psi
Compressive Strength	ASTM D695	7000 psi
Pot Life, @ 25°C (77°F)		40 minutes
Hardness, shore D	ASTM D2240	>93°C(200°F)
Initial curing time		24 Hours
Complete cure		7 Days

Listed properties are approximate values - actual field results may vary.

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LIMITED WARRANTY

MM Systems warrants the MM StadiaSeal Expansion Joint System to be free of defects in material and conform to technical data listed. 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 Certified Contractor.

INSTALLATION

- 1) Remove and repair all unsound concrete. Joint opening sidewall interface areas must be clean and dry prior to installation.
- 2) Prepare substrate by sandblasting just prior to application of the two-component adhesive.
- 3) Allow it to relax in the sun for as long as possible before installation.
- 4) Joint opening must be blown with compressed air immediately prior to seal installation.
- 5) Clean and prepare sidewalls of the seal and joint opening interface per the installation instructions.
- 6) Apply a thin layer of the two-component adhesive to the sides of the seal (enough to fill the ribs) and to the sidewalls of the expansion joint opening.
- 7) Install the seal by pushing it down into the joint opening.
- 8) Position seal according to dimensional guidelines.
- 9) The squeegee sidewall design will force the epoxy into the joint opening. Clean residue.
- 10) Refer to STR Installation Guide for detailed step-by-step instructions.

Spec Data