



# MM<sup>®</sup> EIS Expansion Joint

## Expanding Impregnated Seismic Foam System

SPEC DATA

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MM Systems

### DESCRIPTION

EIS Series combines two high performance expansion joint systems into one monolithic waterproof sealing system. Pecora<sup>®</sup> 301NS traffic grade factory applied seismic silicone surface seal over a micro-cell self-expanding foam impregnated with an acrylic polymer that is UV stable, flame resistant, chemical resistant, and meets ASTM 283, ASTM 518, and DIN 18542.

### BASIC USE

The EIS Series is designed for the watertight sealing horizontal expansion joints in a wide range of applications – parking decks, stadiums, sidewalks, pedestrian bridges, precast concrete tilt-up walls, etc.

### FEATURES

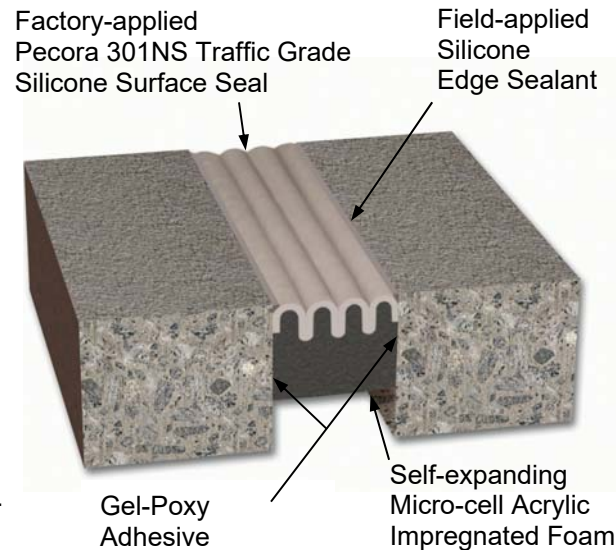
- ± 50% movement capability.
- Vehicular/Traffic Grade Silicone Surface Seal.
- Conforms to irregular openings reducing the risk of costly water damage.
- System generates constant outward pressure providing a permanent weather-tight seal.
- Epoxy bonded acrylic impregnated foam block provides additional point load support.
- Permanently elastic and will expand and accommodate the concrete structures movement under extreme weather conditions.
- Resistant to UV, ozone, acid rain, wind driven rain and extreme temperatures.
- Easy to install, no fasteners or anchors.

### SPECIAL FEATURES

- Will not bleed like asphalt or bitumen based impregnated products.
- Resilient and flexible to -39°F.
- Provides interior vapor, dust, acoustical, air and sound-damping control.
- Available in 1, 2 & 3 hour UL fire protection ratings. See EIS-FR for more information.

### LIMITATIONS

- Do not install when substrate or ambient temperatures above 94°F (35°C) or below -15°F (-25°C).
- Not intended for applications related to roofing or water immersion - contact MM with specific application questions.
- Certain sizes and applications may require the use of a cover plate – contact MM Systems.



Pecora is a registered trademark of Pecora Corporation, Harleysville, Pennsylvania

### PACKAGING

EIS is supplied in 6.5-foot standard factory precompressed lengths.

Silicone Sealant is packaged in 20 fl. oz. (592 ml) sausages.

Epoxy Adhesive is supplied in Part A & Part B 1/2-gallon containers. "Easy-mix" pre-measured packaging insures consistent field performance.

### COLOR OPTIONS

Available in UV Stable Gray.

### STORAGE

All materials should be stored off the ground in a cool, dry location 70-80°F (20-27°C) for a minimum of 24 hours prior to installation regardless of the temperature at installation location.

### 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<sup>®</sup> EIS Expansion Joint System

## SELECTION GUIDE

Model Number	Total Movement		Movement Range "A"				Expansion Joint Size			
			Minimum		Maximum		Nominal		Seal Depth	
EIS-075	0.75	19	0.375	10	1.125	29	0.75	19	2.00	51
EIS-100	1.00	25	0.500	13	1.500	38	1.00	25	2.00	51
EIS-125	1.25	32	0.625	16	1.875	48	1.25	32	2.00	51
EIS-150	1.50	38	0.750	19	2.250	57	1.50	38	2.00	51
EIS-175	1.75	44	0.875	22	2.625	67	1.75	44	2.00	51
EIS-200	2.00	51	1.000	25	3.000	76	2.00	51	3.00	76
EIS-225	2.25	57	1.125	28	3.375	86	2.25	57	3.00	76
EIS-250	2.50	64	1.250	32	3.750	95	2.50	64	3.00	76
EIS-275	2.75	70	1.375	35	4.125	105	2.75	70	3.00	76
EIS-300	3.00	76	1.500	38	4.500	114	3.00	76	3.00	76
EIS-325	3.25	83	1.562	41	4.812	122	3.25	83	3.00	76
EIS-350	3.50	89	1.750	44	5.250	133	3.50	89	3.00	76
EIS-375	3.75	96	1.875	48	5.625	143	3.75	96	3.00	76
EIS-400	4.00	102	2.00	51	6.000	152	4.00	102	4.00	102
EIS-500	5.00	127	2.50	64	7.500	191	5.00	127	4.00	102
EIS-600	6.00	152	3.00	76	9.000	229	6.00	152	6.00	152
EIS-700	7.00	178	3.50	89	10.50	267	7.00	178	6.00	152
EIS-800	8.00	203	4.00	102	12.00	305	8.00	203	6.00	152

Dimensions are in **inches** (bold) and millimeters.  
Contact MM Systems for larger or additional sizes.

## PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Value
Density Average	ASTM D3575	10 lb./cu.ft.
Resistance - Thermal	ASTM C518	3.3, hr-°F-ft <sup>2</sup> /Btu
Conductivity - Thermal	ASTM C518	0.05 W/m.°C
Temperature Stability Range	ASTM D1056	-40°F to 212°F
Shear Strength		8N/cm <sup>2</sup> min.
Tensile strength	ASTM 3574	21 psi, min
Compression Set Resistance	ASTM 3574	2.5%, max.
Bleeding (212°F at 20% compress)		None
Mildew Resistance		Excellent

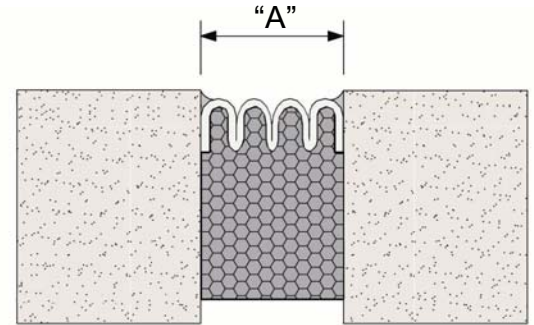
Listed properties are approximate values - actual field results may vary.

## LIMITED WARRANTY

MM Systems warrants the EIS 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.

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.

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Certain applications may require the use of a cover plate.

## INSTALLATION

- 1) Remove and repair all unsound concrete.
- 2) Joint opening sidewall interface areas must be sound, dry, and free of any laitance, curing agents or foreign matter. Prepare substrate by sandblasting just prior to application of the two-component epoxy.
- 3) Lay out the EIS next to the joint opening to check for appropriate length and width. EIS supplied should be precompressed to a size smaller than the intended opening.
- 4) **ROLLS** - Remove release liner to expose adhesive side. Discard the final three inches of each roll.  
**STICKS** - Remove shrink-wrap and masonite packaging from the EIS Seal. Remove release paper from both sides of the EIS prior to installation.
- 5) **SPLICES** - The ends will be compressed and butt spliced together. Allow the EIS ends to expand against each other creating an interference fit.
- 6) Apply a thin 1/16" - 1/8" layer of the two-component epoxy adhesive to both sidewalls of the expansion joint opening.
- 7) Position seal as per dimensional guidelines.
- 8) Do not twist or stretch. The rate of expansion is dependent on the temperature.
- 9) Refer to EIS Installation Guideline for detailed step-by-step instructions.

