



MM[®] EIS Expansion Joint

Expanding Impregnated Seismic Foam System

SPECCATA
 MM Systems Corporation • 50 MM Way, Pendergrass, GA 30567 • 866.506.6929 • www.mm-usa.com

DESCRIPTION

EIS Series combines two high performance expansion joint systems into one monolithic waterproof sealing system. Pecora[®] 301NS traffic grade factory applied seismic silicone surface seal and a secondary 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

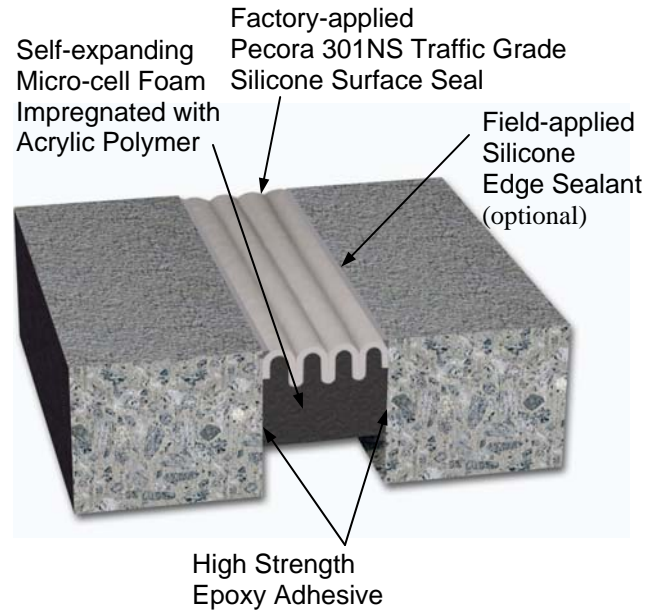
- ± 50% movement capability.
- Vehicular/Traffic Grade Silicone Surface Seal.
- Conforms to irregular openings reducing the risk of costly water damage.
- System generates constant outward pressure providing a permanent weather-tight seal.
- Epoxy bonded acrylic impregnated foam block provides additional 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.
- Fire Barriers - MM expansion joint systems available with 2-4 hr. fire protection ratings.

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 5-foot standard factory precompressed lengths.

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

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[®] EIS Expansion Joint System

SELECTION GUIDE

| Model Number | Total Movement | Movement Range "A" | | | | Expansion Joint Size | | | | Piece Lengths | | |
|--------------|----------------|--------------------|--------------|------|---------------|----------------------|--------------|------|-------------|---------------|---|-----|
| | | Min. | | Max. | | Nominal | Seal Depth | Feet | Meters | | | |
| EIS-050 | 0.50 | 13 | 0.250 | 6 | 0.75 | 19 | 0.50 | 13 | 1.50 | 38 | 5 | 1.5 |
| EIS-063 | 0.625 | 16 | 0.312 | 8 | 0.9375 | 24 | 0.625 | 16 | 1.50 | 38 | 5 | 1.5 |
| EIS-075 | 0.75 | 19 | 0.375 | 10 | 1.125 | 29 | 0.75 | 19 | 1.50 | 38 | 5 | 1.5 |
| EIS-100 | 1.00 | 25 | 0.500 | 13 | 1.500 | 38 | 1.00 | 25 | 2.00 | 51 | 5 | 1.5 |
| EIS-125 | 1.25 | 32 | 0.625 | 16 | 1.875 | 48 | 1.25 | 32 | 2.00 | 51 | 5 | 1.5 |
| EIS-150 | 1.50 | 38 | 0.750 | 19 | 2.250 | 57 | 1.50 | 38 | 2.00 | 51 | 5 | 1.5 |
| EIS-175 | 1.75 | 44 | 0.875 | 22 | 2.625 | 67 | 1.75 | 44 | 2.00 | 51 | 5 | 1.5 |
| EIS-200 | 2.00 | 51 | 1.000 | 25 | 3.00 | 76 | 2.00 | 51 | 3.00 | 76 | 5 | 1.5 |
| EIS-225 | 2.25 | 57 | 1.125 | 28 | 3.375 | 86 | 2.25 | 57 | 3.00 | 76 | 5 | 1.5 |
| EIS-250 | 2.50 | 64 | 1.250 | 32 | 3.750 | 95 | 2.50 | 64 | 3.00 | 76 | 5 | 1.5 |
| EIS-275 | 2.75 | 70 | 1.375 | 35 | 4.125 | 105 | 2.75 | 70 | 3.00 | 76 | 5 | 1.5 |
| EIS-300 | 3.00 | 76 | 1.500 | 38 | 4.500 | 114 | 3.00 | 76 | 3.00 | 76 | 5 | 1.5 |
| EIS-325 | 3.25 | 83 | 1.562 | 41 | 4.812 | 122 | 3.25 | 83 | 3.00 | 76 | 5 | 1.5 |
| EIS-350 | 3.50 | 89 | 1.750 | 44 | 5.250 | 133 | 3.50 | 89 | 3.00 | 76 | 5 | 1.5 |
| EIS-375 | 3.75 | 96 | 1.875 | 48 | 5.625 | 143 | 3.75 | 96 | 4.00 | 102 | 5 | 1.5 |
| EIS-400 | 4.00 | 102 | 2.00 | 51 | 6.00 | 152 | 4.00 | 102 | 4.00 | 102 | 5 | 1.5 |

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 ² /Btu |
| Conductivity - Thermal | ASTM C518 | 0.05 W/m.°C |
| Temperature Stability Range | ASTM D1056 | -40°F to 212°F |
| Shear Strength | | 8N/cm ² 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.

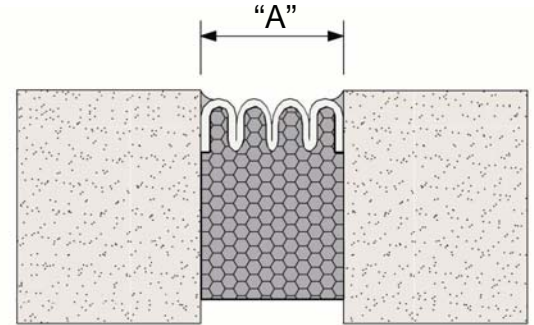
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Spec Data

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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" layer of the two-component epoxy adhesive to the sides of the seal and to the sidewalls of the expansion joint opening.
- 7) Position seal according to 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.