



MM[®] EIV Series Expansion Joint

Expanding Impregnated Vandal-Resistant Security Seal

SPECIAL DATA
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DESCRIPTION

EIV Series is a security seal that combines a vandal and pick resistant primary surface seal with microcell self-expanding impregnated foam thereby creating a monolithic expansion joint sealing system. The security surface seal (silyl-terminated polyurethane) is combined with a hydrophobic polymer impregnated foam with that is flame resistant, mildew resistant, and meets ASTM 283, ASTM 518, and DIN 18542.

BASIC USE

The EIV Series is designed for a wide range of vertical expansion joint applications – school buildings, day care facilities, hospitals, mental institutions, prisons, etc.

FEATURES

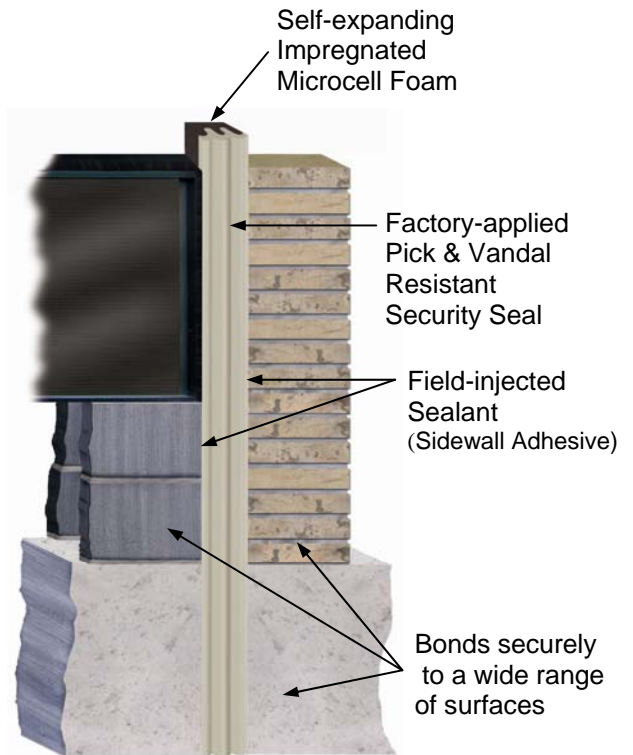
- ± 25% (50% total) movement capability through bellows surface seal design without stretching.
- Hardened Polyurethane Security Surface Seal provides a pick, tamper and vandal resistant safety surface.
- Permanently elastic and will expand to accommodate the buildings movement under various weather conditions.
- Adjoins to a wide range of substrates and vertical wall treatments.
- Conforms to irregular openings reducing the risk of costly water damage.
- System generates constant outward pressure providing a permanent weather-tight seal.
- Easy to install, no fasteners or anchors.

SPECIAL FEATURES

- High durometer face seal provides tamper and pick resistance safety surface.
- 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 epoxy sidewall adhesive – contact MM Systems for additional information.



A Rugged but Flexible Surface Seal Provides Additional Safety Protection

PACKAGING

EIV is supplied in 5-foot standard factory precompressed lengths.

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

COLOR OPTIONS

Available in UV stable White or Limestone.

STORAGE

All materials should be stored off the ground in a warm, 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[®] EIV Series Expansion Joint System

SELECTION GUIDE

Model Number	Total Movement		Movement Range "A"						Seal Depth		Piece Lengths Feet Meters	
			Min.		Nominal		Max.					
EIV-050	0.50	13	0.375	10	0.50	13	0.625	16	1.50	38	5	1.5
EIV-063	0.625	16	0.469	12	0.625	16	0.781	20	1.50	38	5	1.5
EIV-075	0.75	19	0.563	14	0.75	19	0.938	24	1.50	38	5	1.5
EIV-100	1.00	25	0.750	19	1.00	25	1.250	32	2.00	51	5	1.5
EIV-125	1.25	32	0.938	24	1.25	32	1.563	40	2.00	51	5	1.5
EIV-150	1.50	38	1.125	29	1.50	38	1.875	48	2.00	51	5	1.5
EIV-175	1.75	44	1.313	33	1.75	44	2.188	56	2.00	51	5	1.5
EIV-200	2.00	51	1.500	38	2.00	51	2.500	64	3.00	76	5	1.5
EIV-225	2.25	57	1.688	43	2.25	57	2.813	71	3.00	76	5	1.5
EIV-250	2.50	64	1.875	48	2.50	64	3.125	79	3.00	76	5	1.5
EIV-275	2.75	70	2.063	52	2.75	70	3.438	87	3.00	76	5	1.5
EIV-300	3.00	76	2.250	57	3.00	76	3.750	95	3.00	76	5	1.5
EIV-325	3.25	83	2.438	62	3.25	83	4.063	103	3.00	76	5	1.5
EIV-350	3.50	89	2.625	67	3.50	89	4.375	111	3.00	76	5	1.5
EIV-375	3.75	96	2.813	71	3.75	96	4.688	119	4.00	102	5	1.5
EIV-400	4.00	102	3.000	76	4.00	102	5.000	127	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.
Durometer - Shore A Hardness	ASTM D2240	55 +/-5
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 185°F
Shear Strength		8N/cm ² min.
Tensile strength	ASTM 3574	21 psi, min
Compression Set Resistance	ASTM 3574	2.5%, max.
Flash Point		590°F (310°C)
Flammability	UL 94VO	Self Extinguish
Mildew Resistance		Excellent

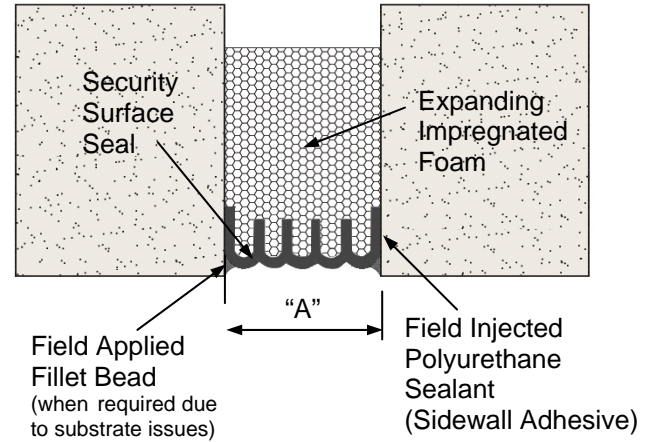
Listed properties are approximate values - actual field results may vary.
*Thermal Resistance per one (1") inch depth of EIV seal.

LIMITED WARRANTY

MM Systems warrants the EIV 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 epoxy adhesive.

INSTALLATION

- 1) Repair all unsound substrates surrounding the joint opening sidewall interface. All surface areas must be clean and dry prior to installation.
- 2) Lay out the EIV next to the joint opening to check for appropriate length and width. EIV supplied should be precompressed to a size smaller than the intended opening.
- 3) Remove shrink-wrap and masonite packaging from the EIV Seal. Remove release paper from both sides of the EIV prior to installation.
- 4) SPLICES - The ends will be compressed and butt spliced together. Apply sealant across splice area. Allow the ends to expand against each other creating an interference fit.
- 5) Position seal according to dimensional guidelines.
- 6) Do not twist or stretch. The rate of expansion is dependent on the temperature.
- 7) Inject sealant between seal and substrate sidewall to insure proper adhesion.
- 8) Refer to EIV Installation Guideline for detailed step-by-step instructions.

