



# MM<sup>®</sup> EIF Expansion Joint

## Expanding Impregnated Foam System

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

### DESCRIPTION

EIF is an engineered high performance watertight expansion joint sealing system made from micro-cell expanded foam impregnated with an acrylic polymer that is flame retardant, UV stable, chemical resistant, and meets ASTM 283, ASTM 518, and DIN 18542.

### BASIC USE

EIF is designed for sealing horizontal and vertical expansion joints. The outstanding physical properties of the EIF allows for a watertight seal in a wide range of applications – parking decks, stadiums, sidewalks, pedestrian bridges, concrete tilt-up walls, etc.

### FEATURES

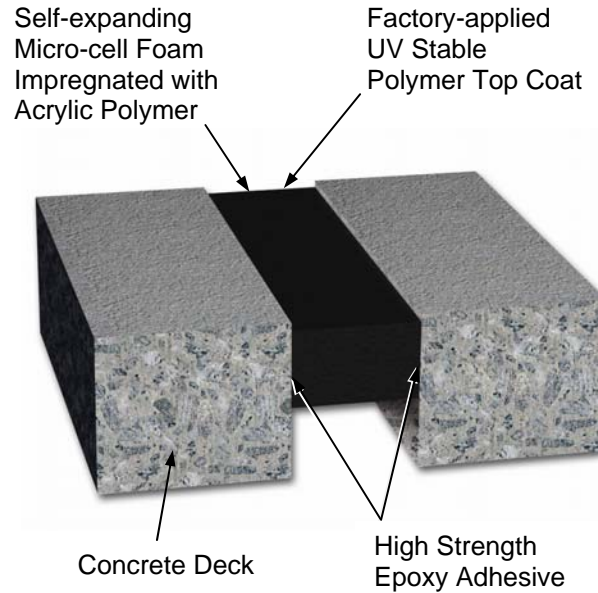
- ± 50% movement capability for joints up to 8" wide.
- Conforms to irregular openings virtually eliminating the risk of costly water damage.
- System generates constant outward pressure providing a permanent weather-tight seal.
- Epoxy bonded impregnated foam block provides additional point load support.
- Permanently elastic and will expand and accommodate the concrete deck movement under extreme weather conditions.
- Resistant to UV, ozone, acid rain, wind driven rain and extreme temperatures.
- Easy to install, no fasteners or anchors.
- Provides watertight seal in below-grade applications when combined with specified waterproofing systems.
- Can be used as a supportive secondary seal behind bond breaker tape and caulk.

### SPECIAL FEATURES

- Will not bleed like asphalt or bitumen based products - resilient and flexible to -39°F.
- Provides interior vapor, dust, acoustical, air and sound-dampening control.
- Fire Barriers - MM expansion joint systems available with 2-4 hr. fire protection ratings.

### LIMITATIONS

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



### PACKAGING

EIF Expanding Impregnated Foam is supplied in standard precompressed lengths (see table).

Splicing Sealant is supplied in 300 ml (10.15 fl. oz.) cartridges.

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 black.

### 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.

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## SELECTION GUIDE

Model Number	Total Movement		Movement Range "A"				Expansion Joint Size				Piece Lengths	
	Feet	Inches	Min.	Inches	Max.	Inches	Nominal	Inches	Seal Depth	Inches	Feet	Meters
EIF-050	<b>0.50</b>	13	<b>0.250</b>	6	<b>0.75</b>	19	<b>0.50</b>	13	1.50	38	<b>21</b>	6.4
EIF-063	<b>0.625</b>	16	<b>0.312</b>	8	<b>0.9375</b>	24	<b>0.625</b>	16	1.50	38	<b>14.5</b>	4.4
EIF-075	<b>0.75</b>	19	<b>0.375</b>	10	<b>1.125</b>	29	<b>0.75</b>	19	1.50	38	<b>7.5</b>	2.3
EIF-100	<b>1.00</b>	25	<b>0.500</b>	13	<b>1.500</b>	38	<b>1.00</b>	25	2.00	51	<b>5</b>	1.5
EIF-125	<b>1.25</b>	32	<b>0.625</b>	16	<b>1.875</b>	48	<b>1.25</b>	32	2.00	51	<b>5</b>	1.5
EIF-150	<b>1.50</b>	38	<b>0.750</b>	19	<b>2.250</b>	57	<b>1.50</b>	38	2.00	51	<b>5</b>	1.5
EIF-175	<b>1.75</b>	44	<b>0.875</b>	22	<b>2.625</b>	67	<b>1.75</b>	44	2.00	51	<b>5</b>	1.5
EIF-200	<b>2.00</b>	51	<b>1.000</b>	25	<b>3.00</b>	76	<b>2.00</b>	51	3.00	76	<b>5</b>	1.5
EIF-225	<b>2.25</b>	57	<b>1.125</b>	28	<b>3.375</b>	86	<b>2.25</b>	57	3.00	76	<b>5</b>	1.5
EIF-250	<b>2.50</b>	64	<b>1.250</b>	32	<b>3.750</b>	95	<b>2.50</b>	64	3.00	76	<b>5</b>	1.5
EIF-275	<b>2.75</b>	70	<b>1.375</b>	35	<b>4.125</b>	105	<b>2.75</b>	70	3.00	76	<b>5</b>	1.5
EIF-300	<b>3.00</b>	76	<b>1.500</b>	38	<b>4.500</b>	114	<b>3.00</b>	76	3.00	76	<b>5</b>	1.5
EIF-325	<b>3.25</b>	83	<b>1.562</b>	41	<b>4.812</b>	122	<b>3.25</b>	83	3.00	76	<b>5</b>	1.5
EIF-350	<b>3.50</b>	89	<b>1.750</b>	44	<b>5.250</b>	133	<b>3.50</b>	89	3.00	76	<b>5</b>	1.5
EIF-375	<b>3.75</b>	96	<b>1.875</b>	48	<b>5.625</b>	143	<b>3.75</b>	96	4.00	102	<b>5</b>	1.5
EIF-400	<b>4.00</b>	102	<b>2.00</b>	51	<b>6.00</b>	152	<b>4.00</b>	102	4.00	102	<b>5</b>	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-ftz/Btu
Conductivity - Thermal	ASTM C518	0.05 W/m.°C
Temperature Stability Range	ASTM D1056	-40°F to 212°F
Shear Strength		8N/cm2 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 EIF 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.

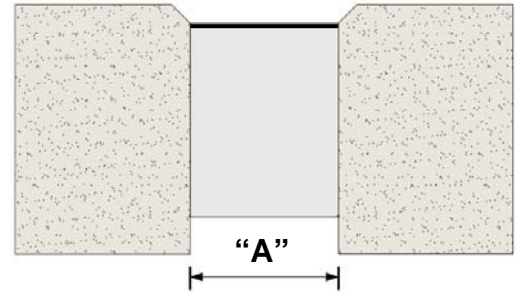
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Certain applications may require the use of a cover plate.

## 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 EIF next to the joint opening to check for appropriate length and width. EIF 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 EIF Seal. Remove release paper from both sides of the EIF prior to installation.
- 5) **SPLICES** - The ends will be compressed and butt spliced together. Allow the EIF 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 EIF Installation Guideline for detailed step-by-step instructions.