Foam Seal Series

Product Guide

Taking Care of Building Movement
Because of how the world works, buildings move. Temperatures change causing buildings to expand and contract. Earthquake activity shifts buildings horizontally, vertically and diagonally. And winds force structures to sway.

To accommodate this movement, buildings must be designed with openings or expansion joints, to absorb the movement. That's where architectural joint systems can help. Architectural joint systems are transitions across these building openings, allowing people and traffic to safely move through the building. These systems are also engineered to move with the building.

The Foam Series Seal systems are compression seals for exterior applications, such as parking and bridge decks.

There are numerous types of systems for various applications. To select the system that meets your needs, visit www.inprocorp.com and click on the JointMaster Wizard icon.

P.O. Box 406 · Muskego, Wisconsin 53150 USA
inprocorp.com
Nationwide 800.222.5556/Fax 888.715.8407
International Sales 262.679.5521/Fax 262.679.5524

InPro ENGINEERED Metal Products

Foam Seals Series
Suggested Specifications

PART 1 — GENERAL
1.01 SUMMARY
A. 1100 Series
1. Evazote - A low density, closed cell, cross linked ethylene vinyl acetate polyethylene co-polymer foam joint sealant. Provide where indicated on drawings and as specified in this section.
2. Metazeal - A low density, closed cell, cross linked polyethylene foam joint sealant. Provide where indicated on drawings and as specified in this section.
B. 1150 Series
1. A closed cell, durable, ethylene vinyl acetate (EVA) foam designed to provide a watertight joint. Provide where indicated on drawings and as specified in this section.
C. 1200 Series
1. An open cell polyurethane, pre-compressed, foam joint sealant impregnated with manufacturer's weatherproofing agent. Foam joint sealant is non-drying, non-shrinking, self-healing, and self-expanding. Exposed surface is coated with a silicone face to act as a binary sealant. Provide where indicated on Drawings and as specified in this Section.
D. 1250 Series
1. A closed cell, stabilized polymer material with a silicone joint sealant on the exterior face. Provide where indicated on Drawings and as specified in this Section.
1.02 WORK INCLUDED
A. Furnish complete JointMaster/InPro Corporation Expansion Joint Systems.
1. Interior floor expansion joint systems.
2. Interior wall expansion joint systems.
3. Interior ceiling expansion joint systems.
4. Roof expansion joint systems.
5. Exterior wall expansion joint systems.
6. Exterior floor expansion joint systems.
7. Parking deck expansion joint systems.
8. Fire Rated Assemblies.
1.03 RELATED WORK
(Select only those sections actually used in association with foam joint sealant.)
A. Related work, specified elsewhere.
1. Cast-In-Place Concrete: Section 03300.
2. Precast Concrete: Section 03400.
3. Tilt-Up Precast Concrete: Section 03470.
4. Masonry Units: Section 04200.
5. Clay Masonry Units: Section 04210.
6. Concrete Masonry Units: Section 04220.
7. Exterior Insulation and Finish System (EIFS): Section 07240.
8. Metal Wall Panels: Section 07415.
9. Composite Panels: Section 07430.
10. Sheet Metal Flashing and Trim: Section 07620.
11. Steel Doors and Frames: Section 08110.
12. Aluminum Doors and Frames: Section 08120.
13. Wood doors: Section 08210.
14. Plastic Doors: Section 08220.
15. Aluminum Entrances and Storefronts: Section 08410.
16. Steel Windows: Section 08510.
17. Aluminum Windows: Section 08520.
18. Wood Windows: Section 08550.
19. Plastic Windows: Section 08560
20. Composite Windows: Section 08570.
1.04 PERFORMANCE REQUIREMENTS
A. Provide foam joint sealants for exterior and interior applications that establish and maintain a water-resistant continuous joint seal without staining or deteriorating joint substrates.
1.05 SUBMITTALS
A. Product Data: Manufacturer's technical data for each type of foam joint sealant including characteristics, finishes, details of installation, and the following:
1. Manufacturer's installation instructions.
2. Certified test reports indicating compliance with Performance Requirements specified herein.
B. Samples: 12 inch long pieces of each specified pre-compressed foam joint sealant for size verification.
1.06 QUALITY ASSURANCE
A. Single Source Responsibility: Obtain foam joint sealant for entire Project from single manufacturer.
B. Manufacturer's Qualifications: Firm with not less than 5 years experience in manufacturing of products similar in quality to those required for this Project.
C. Installer's Qualifications: Firm with not less than 5 years experience in installation of products similar in complexity to those required for this Project.
1.07 DELIVERY, STORAGE, AND HANDLING
A. Comply with Section 01600.
B. Deliver and store materials in manufacturer's original unopened containers with brands, names, and production lot numbers clearly marked thereon.
C. Storage and Protection: Comply with manufacturer's recommendations.
1. Store material in a heated area with temperatures not less than 50°F (10°C) and not to exceed 90°F (30°C).
2. Do not use any opened or damaged container.
1.08 PROJECT CONDITIONS
A. Environmental Requirements: Do not proceed with installation of foam joint sealant under following conditions:
1. When ambient and substrate temperature conditions go beyond the limits permitted by joint sealant manufacturer.
2. When joint substrates are wet.
B. Joint-Width Conditions: Do not proceed with installation of foam joint sealant where joint widths are less than or greater than those allowed by joint sealant manufacturer for applications indicated.
C. Joint-Substrate Conditions: Do not proceed with installation of foam joint sealant until removal of contaminants capable of interfering with adhesion occurs.
1.09 WARRANTY
A. Standard JointMaster/InPro Corporation limited warranty against material and manufacturing defects for a period of not less than three (3) years when installed in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS
2.01 MANUFACTURER
A. JointMaster/InPro Corporation
S80 W18766 Apollo Drive
Muskego, WI 53150 USA
Phone: (800) 222-5556
Fax: (888) 715-8407
Email: service@inprocorp.com
B. Substitutions: Not permitted.
2.02 MATERIALS
A. 1100 Series
1. Evazote: A UV stable, pre-formed, impermeable, flexible, expansion joint material that is low density, closed cell, cross-linked, ethylene acetate, polyethylene copolymer. Evazote shall meet the following requirements:
Density ASTM D-545 3.1 +/- .3 (lb./cf)
Tensile Strength ASTM D-3575 110 +/-15 psi
Water Absorption ASTM D-3575, suffix L <0.02 (lb./ft2)
Compression Set ASTM D-1056 15%
Elongation @ Break ASTM D-3575 255 +/- 15%
Tear Strength ASTM D-624 16 psi
2. Metazeal: A UV stable, pre-formed, impermeable, flexible, expansion joint material that is low density, closed cell, cross-linked, polyethylene. Metazeal shall meet the following requirements:
Density ASTM D-3575-91, Suffix: W Method A 2.1(lb./cf)
Tensile Strength ASTM D-3575-91, Suffix T 102 psi
Water Absorption ASTM D-3575 <0.02 (lb./ft2)
Compression Set ASTM D-1056 (Suffix B) 11%
Elongation @ Break ASTM D-3575 175%
Tear Strength ASTM D-624 (D-3575-91, Suffix G) 16 psi
Toxicity ISO-10993.5 Pass (not cytotoxic)
3. Serva-Bond #1: A two component 100% solid modified epoxy.
B. 1150 Series
1. UV stable, chemically resistant, preformed, compressible, closed cell foam system, designed to provide a watertight seal when bonded in place. 1150 Seismic seal shall meet the following requirements:
Density: 10 lb./cu.ft.
Tensile Strength: 120 PSI
Tensile elongation: 250%
Tear Resistance: 21.5 lbs/in
Water absorption: <.02 lbs/ft2
C. 1200 Series
1. Pre-compressed, impregnated, polyurethane joint sealant foam tape engineered for use in exterior and interior building joints. Joint sealant foam tape is non-drying, non-shrinking, self-healing, self-expanding, meeting the following requirements:
a. Density: 8.5-10 lbs per cubic foot (130 to 160 Kg per cubic meter).
b. Thermal Conductivity: 0.05 w per square meter.
c. Temperature Stability Range:
1. Short term: Minus 40 degrees F to 185 degrees F (Minus 40 C to 85 degrees C).
d. Tensile Strength: 21 PSI minimum per ASTM 3574.
e. Elongation: 120 percent plus or minus 20 percent per ASTM 3574.
f. Compression Set: 2.5 percent maximum.
g. Resistance to Aging: Excellent.
h. Staining: None.
i. Mildew Resistance: Excellent.
j. Outdoor Exposure: Excellent.
k. Shelf Life: 2 years.
l. Thickness: {1 inch to 8 inches].
m. Color: Dow 790 silicone colors
C. 1250 Series
1. A closed cell, stabilized polymer material with a silicone joint sealant on the exterior face meeting the following requirements:
a. Density: 10 lbs per cubic foot (160 Kg per cubic meter).
b. Thermal Conductivity: R-4 ASTM C177
c. Temperature Stability Range:
1. Short term: Minus 40 degrees F to 185 degrees F (Minus 40 C to 85 degrees C).
d. Tensile Strength: 120 PSI minimum per ASTM 3575.
e. Elongation: 250 percent ASTM 3575.
f. Compression Set: 2.5 percent maximum.
g. Resistance to Aging: Excellent.
h. Staining: None.
i. Mildew Resistance: Excellent.
j. Outdoor Exposure: Excellent.
k. Shelf Life: 2 years.
l. Thickness: {1 inch to 12 inches].
m. Color: Dow 790 silicone colors

2.03 MANUFACTURED UNITS

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Suggested Specifications

A. 1100 Series
1. Evazote

Model	Joint Width	Material Size (W x D)	Movement Range	Color
J1100-100/E	¾"	1" x 1"	.4" to 1.3"	Beige
J1100-125/E	1"	1 ¼" x 2"	.5" to 1.63"	Beige
J1100-156/E	1 ¼"	1.56" x 1"	.63" to 2"	Beige
J1100-188/E	1 ¾"	1" x 1.88"	.75" to 2.44"	Beige
J1100-219/E	2"	2.19" x 2"	.88" to 2.84"	Beige
J1100-250/E	2 ½"	2.5" x 2"	1" to 3.25"	Beige
J1100-281/E	2 ¼"	2.81" x 2"	1.12" to 3.65"	Beige
J1100-313/E	2 ½"	3.13" x 2.5"	1.25" to 4.06"	Beige
J1100-344/E	2 ¾"	3.44" x 2.5"	1.38" to 4.47"	Beige
J1100-375/E	3"	3.75" x 3"	1.5" to 4.88"	Beige
J1100-406/E	3 ¼"	4.06" x 3"	1.62" to 5.28"	Beige
J1100-438/E	3 ½"	4.38" x 3.5"	1.75" to 5.69"	Beige
J1100-463/E	3 ¾"	4.63" x 3.5"	1.88" to 6"	Beige
J1100-500/E	4"	5" x 3.5"	2" to 6.5"	Beige

2. Metazeal

Model	Joint Width	Material Size (W x D)	Movement Range	Color
J1100-100/G	¾"	1" x 1"	.4" to 1.3"	Gray
J1100-125/G	1"	1 ¼" x 2"	.5" to 1.63"	Gray
J1100-156/G	1 ¼"	1.56" x 1"	.63" to 2"	Gray
J1100-188/G	1 ¾"	1" x 1.88"	.75" to 2.44"	Gray
J1100-219/G	2"	2.19" x 2"	.88" to 2.84"	Gray
J1100-250/G	2 ½"	2.5" x 2"	1" to 3.25"	Gray
J1100-281/G	2 ¼"	2.81" x 2"	1.12" to 3.65"	Gray
J1100-313/G	2 ½"	3.13" x 2.5"	1.25" to 4.06"	Gray
J1100-344/G	2 ¾"	3.44" x 2.5"	1.38" to 4.47"	Gray
J1100-375/G	3"	3.75" x 3"	1.5" to 4.88"	Gray
J1100-406/G	3 ¼"	4.06" x 3"	1.62" to 5.28"	Gray
J1100-438/G	3 ½"	4.38" x 3.5"	1.75" to 5.69"	Gray
J1100-463/G	3 ¾"	4.63" x 3.5"	1.88" to 6"	Gray
J1100-500/G	4"	5" x 3.5"	2" to 6.5"	Gray

B. 1150 Series
1. Joint width – 4" to 16"
2. Movement ± 25%
3. Color Black or Gray

C. 1200 Series

Model	Joint Width US/mm	Seal Height US/mm	Movement ± Compression US/mm	Movement ± Expansion US/mm
1200-050	½"/13	1 ½"/38	¼"/6	¼"/6
1200-100	1"/25	1 ½"/38	½"/13	½"/13
1200-150	1 ½"/38	2"/51	¾"/20	¾"/20
1200-200	2"/51	2"/51	1"/25	1"/25
1200-250	2 ½"/64	2"/51	1 ¼"/32	1 ¼"/32
1200-300	3"/76	3"/76	1 ½"/38	1 ½"/38
1200-350	3 ½"/89	3"/76	1 ¾"/44	1 ¾"/44
1200-400	4"/102	4"/102	2"/51	2"/51
1200-500	5"/127	4"/102	2 ½"/64	2 ½"/64
1200-600	6"/152	4"/102	3"/76	3"/76
1200-700	7"/179	5"/127	3 ½"/89	3 ½"/89
1200-800	8"/203	5"/127	4"/102	4"/102

D. 1250 Series

Model	Joint Width US/mm	Actual Foam Dimensions Width US	Depth US	Length US
J1250-050	½"/13	.625	2"	5'
J1250-100	1"/25	1.25	2"	5'
J1250-150	1½"/38	1.875	2"	5'
J1250-200	2"/51	2.5	2"	5'
J1250-250	2 ½"/64	3.125	2"	5'
J1250-300	3"/76	3.75	3"	5'
J1250-350	3 ½"/89	4.375	3"	5'
J1250-400	4"/102	5	3"	5'
J1250-500	5"/127	6.25	3 ¼"	4'-5'
J1250-600	6"/152	7.5	3 ¼"	4'-5'
J1250-700	7"/179	8.75	3 ¼"	4'-5'
J1250-800	8"/203	10	3 ¼"	4'-5'
J1250-900	9"/204	11.25	3 ¼"	4'-5'
J1250-1000	10"/205	12.5	3 ¼"	4'-5'
J1250-1100	11"/206	13.75	3 ¼"	4'-5'
J1250-1200	12"/207	15	3 ¼"	4'-5'

2.04 ACCESSORIES
A. Cleaner approved by joint sealant manufacture and substrate manufacturers.

PART 3 - EXECUTION

3.01 EXAMINATION
A. Verification of Conditions: Examine work areas and conditions and identify conditions detrimental to proper and or timely completion.
1. Do not proceed until correction of unsatisfactory conditions.
2. Refer to manufacturer's installation guide or contact manufacturer for more information.

3.02 INSTALLATION
A. Joint systems: Install in accordance with manufacturer's instructions. Align work plumb, level and flush with adjacent surfaces. Adhere seal to substrate as per manufacturer's installation instructions.

3.03 CLEANING
A. Clean adjacent surfaces and remove unused product and debris from project site.
B. Remove improperly installed or damaged material, and install new material.

3.04 PROTECTION
A. Protect foam joint sealant during and after expansion period from contact with contaminating substances and from damage resulting from construction operations or other causes so foam joint sealant is without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated foam joint sealant.

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