

1100 Series Foam Seals

Floor to Floor / Floor to Wall
Wall to Wall / Wall to Corner



Movement Rating $\pm 50\%$

Product Guide



- ▶ High heat, Weather, and UV resistant
- ▶ 100% Watertight foam seal
- ▶ Excellent for roof applications and under metal cover plate systems
- ▶ Allows for 50% Tension | 50% Compression | 100% Shear movement.
- ▶ Made of a nitrogen blown polyethylene material which is more environmentally friendly than EVA foam seals
- ▶ Ridged sides trap and pool epoxy, (JPR003) providing superior adhesion to the joint surface and a water tight seal
- ▶ Optional Coating: Seal can be painted to match any wall color using ColorMatch, a field applied paint which can match any Sherwin-Williams® or Pantone® color. See **ColorMatch** (JPR007) technical data for more information.
- ▶ For joint widths larger then 3" (76mm) in horizontal applications, JointMaster recommends a coverplate over the 1100 Foam Seal.

Physical Data		
Property	Value	ASTM D3575
Nominal Density	2.0 pcf \pm 0.3	Suffix W
Compressive (± 1)	9 psi @ 25% 16 psi @ 50%	Suffix D
Elongation	200% \pm 10%	Suffix T
Tensile Strength	125 psi \pm 12 psi	Suffix T
Tear Strength	17.5 pli \pm 3 pli	Suffix G
Compression Set 22hrs @ 50% (± 3)	14% @ 24 hr rcvy (20% @ 2 hr rcvy)	Suffix B
Water Absorption	< 0.03 lb/ft ² 3% vol/vol max	Suffix L

Application	System	Nominal Joint Width		Seal Height		Movement + / -			
		US	mm	US	mm	Compression		Expansion	
						US	mm	US	mm
1100 Floor/Floor Floor/Wall Wall/Wall Wall/Corner	1100-100	1"	25	2"	51	.4"	10	1.8"	46
	1100-150	1 1/2"	38	2"	51	.8"	20	2.6"	66
	1100-200	2"	51	2"	51	1.1"	27	3.6"	91
	1100-250	2 1/2"	64	2"	51	1.3"	33	4.2"	107
	1100-300	3"	76	3"	76	1.6"	40	5.2"	132
	1100-350	3 1/2"	89	3"	76	1.8"	46	5.8"	147
	1100-400	4"	102	4"	101	2"	51	6.5"	165
	1100-450	4 1/2"	114	4"	101	2.2"	56	7.3"	185
	1100-500	5"	127	4"	101	2.5"	64	8.1"	206

1100 series available in other sizes up to 12", contact your InPro Rep. for more info.

IPC.924/REV.10

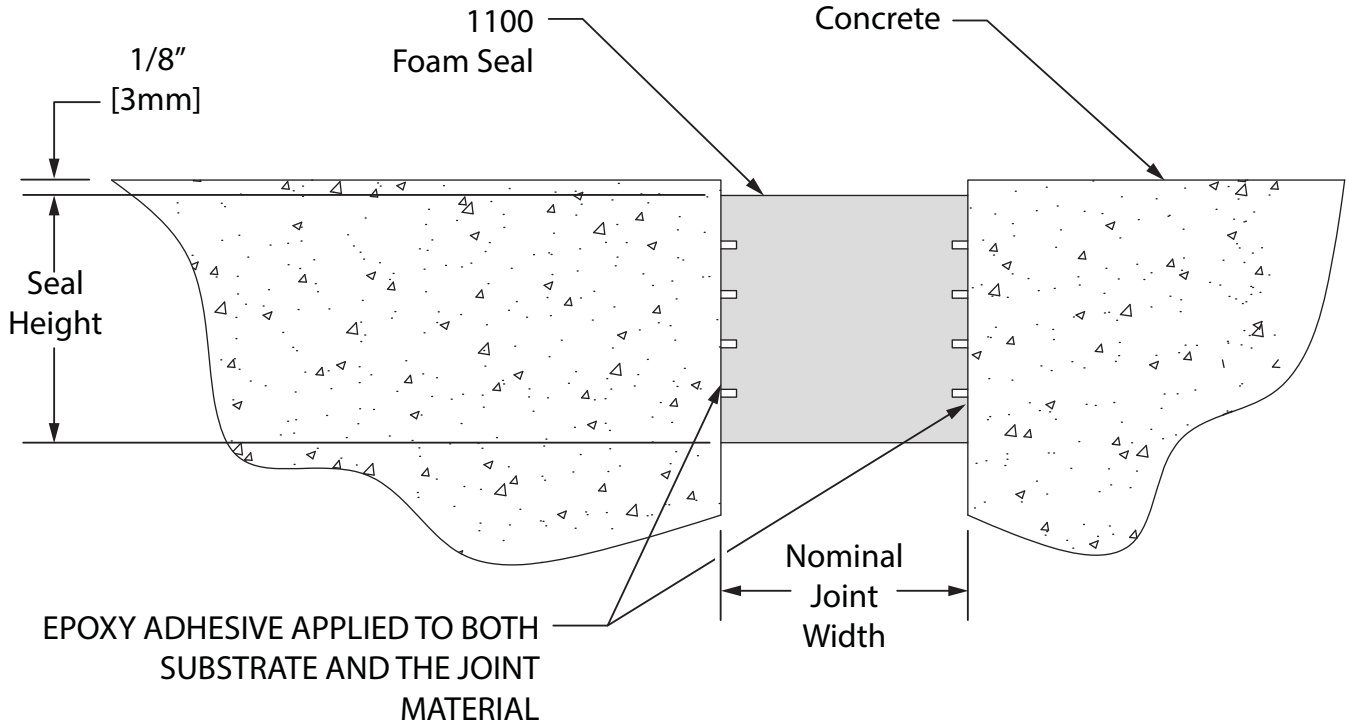
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JOINTMASTER®
EXPANSION JOINT SYSTEMS
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1100 Series

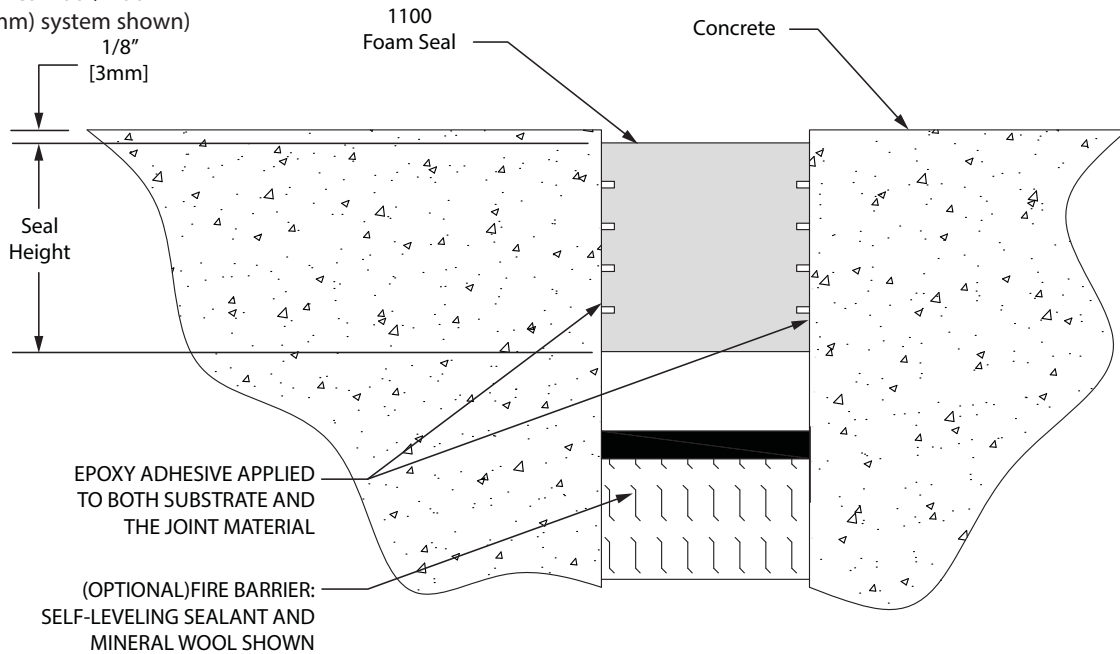
Foam Seal Systems

1100 Series Floor/Floor
(2" (50mm) system shown)



1100 Series Options

1100 Series Floor/Floor
(2" (50mm) system shown)



FOAM SEALS

Suggested Specifications

PART 1 — GENERAL

1.01 SUMMARY

A. Furnish Expansion Joint Systems in accordance with the drawings and general provisions of the Contract.

1.02 WORK INCLUDED

A. Furnish complete JointMaster/InPro Corporation Expansion Joint Systems.

- Interior floor expansion joint systems.
- Interior wall expansion joint systems.
- Interior ceiling expansion joint systems.
- Roof expansion joint systems.
- Exterior wall expansion joint systems.
- Exterior floor expansion joint systems.
- Parking deck expansion joint systems.
- Fire Rated Assemblies.

1.03 RELATED WORK

(Select only those sections actually used in association with foam joint sealant.)

- A. Related work, specified elsewhere.
- Cast-In-Place Concrete: Section 03300.
 - Precast Concrete: Section 03400.
 - Tilt-Up Precast Concrete: Section 03470.
 - Masonry Units: Section 04200.
 - Clay Masonry Units: Section 04210.
 - Concrete Masonry Units: Section 04220.
 - Exterior Insulation and Finish System (EIFS): Section 07240.
 - Metal Wall Panels: Section 07415.
 - Composite Panels: Section 07430.
 - Sheet Metal Flashing and Trim: Section 07620.
 - Aluminum Entrances and Storefronts: Section 08410.
 - Steel Windows: Section 08510.
 - Aluminum Windows: Section 08520.
 - Wood Windows: Section 08550.
 - Plastic Windows: Section 08560.
 - 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:
- Manufacturer's installation instructions.
 - Certified test reports indicating compliance with Performance Requirements specified herein.
- B. Samples: Sample of specified systems where required.

1.06 QUALITY ASSURANCE

- A. Manufacturer: Furnish assemblies from one (1) manufacturer with a minimum of five (5) years of experience in the design, engineering and fabrication of expansion joint systems.
- B. Installer: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the manufacturer of the system.

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. Inspect materials upon arrival, monitor for adverse environmental impacts.
- C. Storage and Protection: Comply with manufacturer's recommendations.
- Store material in a heated area with temperatures not less than 50°F (10°C), store material at a minimum of 68°F (20°C) for a minimum of 24 hour prior to installation.
 - 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:
- When substrate or ambient temperatures are below -14°F (-25°C) or above 95°F (35°C).
 - When joint substrates are wet.
- B. Joint-Width Conditions: Joints must be sized by measuring every 5-7 ft. (1.524-2.137 meters) to ensure gap opening is uniform and depth is sufficient for the supplied material.
- 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 five (5) years when installed in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. JointMaster/InPro Corporation
 580 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. Open Cell Foam (1200 or 1175): Pre-compressed, impregnated, polyurethane foam.
- B. Closed Cell Foam (1100, 1150, or 1250): Low density, impermeable, ethylene vinyl acetate (EVA)(1150 only), nitrogen blown (1100 only), polyethylene, or stabilized polymer (1250 only) material.
- C. Epoxy: High Strength two-part 100% solid, moisture insensitive epoxy.
- D. Paint (1100 and 1150 only): Acrylic, elastomeric, non-cracking interior and exterior grade.
- E. Face Sealant (1175, 1200, and 1250): Color matched silicone based (pick resistant where required).
- F. Adhesive Sealant (1200 and 1250): Construction grade silicone sealant, supplied by others.
- G. Silicone Coating (1200 and 1250): Applied on exposed surface(s) of foam.
- H. Urethane Coating (1175, 1200, and 1250): Pick resistant optional coating applied on exposed surface of foam.

2.03 INTERIOR AND EXTERIOR FOAM SYSTEMS FOR FLOORS, WALLS, AND CEILINGS

- A. JointMaster's 1100 Series – Closed Cell Foam:
- Pre-formed, cross linked nitrogen blown expansion joint foam.
 - High heat resistance with a UV inhibitor.
 - Inherent sound attenuation qualities.
 - Suitable for horizontal and vertical seismic conditions.
 - ColorMatch (JPR007) paint available.
 - Available in continuous, uninterrupted lengths of 40 lf [12 lm] minimum.
 - Beveled edges standard for joint widths 4" and up, installed with epoxy.
 - DOT approved conforming to ASTM D-1056, Type 2, Class B, Grade 3.
 - Foam seal shall meet the following requirements:
 Nominal Density ASTM D3575-W: 2.0 pcf +/- 0.3
 Compressive (+/-) ASTM D3575-D: 11.5 psi @ 25% and 22 psi @ 50%
 Elongation ASTM D3575-T: 200% +/- 10%
 Tensile Strength ASTM D3575-T: 125 psi +/- 12 psi
 Tear Strength ASTM D3575-G: 17.5 pli +/- 3 pli
 Compression Set (22 hr @ 50%) ASTM D3575-B: 9% @ 24 hr rcvy
 Water Absorption ASTM D3575-L: <0.03 lb/ft2 3% vol/vol
- B. JointMaster's 1150 Series – Closed Cell Foam:
- Pre-formed, cross linked polyethylene with EVA.
 - Chemical and solvent resistant foam seal with a UV inhibitor.
 - Inherent sound attenuation qualities.
 - Suitable for horizontal and vertical seismic conditions.
 - ColorMatch (JPR007) paint available.
 - Available in continuous, uninterrupted lengths of 40 lf [12 lm] minimum.
 - Beveled edges standard for joint widths 4" and up, installed with epoxy.
 - DOT approved conforming with ASTM D-1056, Type 2, Class B, Grade 2 and NYSDOT 705.08 TYPE I and TYPE II.
 - Foam seal shall meet the following requirements:
 Nominal Density ASTM D3575-W: 3.0 pcf max
 Compressive (+/-): ASTM D3575-D: 5 psi @ 25% and 14 psi @ 50%
 Elongation ASTM D3575-T: 275% +/- 10%
 Tensile Strength ASTM D3575-T: 70 psi +/- 12 psi
 Tear Strength ASTM D3575-G: 12 pli +/- 3 pli
 Compression Set (22 hr @ 50%) ASTM D3575-B: 14.5% @ 24 hr rcvy
 Water Absorption ASTM D3575-L: <0.03 lb/ft2 3% vol/vol max
- C. JointMaster's 1175 Series – Open Cell Foam:
- Pick resistant urethane joint sealant on the exterior face, offered in gray only.
 - Intended for horizontal seismic applications.
 - State and Federal DOT approved.
 - Foam seal shall meet the following requirements:
 Density: 10 lb/cu. Ft (160 kg/cubic meters)
 Thermal Resistance (ASTM C518): 3.3 hr - o F-ft/2
- Btu
- UV Resistance: Excellent
 Temperature Stability Range: -40 o F to 185 o F
 Resistance to Compression Set (ASTM 3574): Max
- 2.5%
- Shear Strength: Min. 8N/cm2
 Thermal Conductivity: 0.05W/m. o C
 Tensile Strength (ASTM 3574): Meets 21 psi min.
 Ultimate Elongation (ASTM 3574): 125% +/- 20%

Mildew Resistance: Excellent

D. JointMaster's 1200 Series – Open Cell Foam:

- Foam joint sealant comes pre-compressed and is non-drying, non-shrinking, self-healing, and self-expanding.
- Exposed surface(s) is silicone coated with single, double, or triple faced configurations available.
- Excellent sound attenuation qualities (STC Rating = 52).
- Suitable for vertical seismic applications.
- Available in 26 standard colors (See JointMaster's Color Guide), custom colors available.
- Foam seal shall meet the following requirements:
 Density: 10 lbs per cubic foot (130 to 160 Kg per cubic meter).
 Thermal Conductivity: 0.05 w per square meter o C.
 Temperature Stability Range:
 1. Short term: Minus 40 degrees F to 185 degrees F (Minus 40 C to 85 degrees C).
 Tensile Strength: 21 PSI minimum per ASTM 3574.
 Elongation: 125 percent plus or minus 20 percent per ASTM 3574.
 Compression Set: 2.5 percent maximum.
 Resistance to Aging: Excellent.
 Staining: None.
 Mildew Resistance: Excellent.
 Outdoor Exposure: Excellent.
 Shelf Life: 2 years.
 Thickness: [1 inch to 8 inches].
 Color: Primary Dow 790 silicone colors and Secondary Pecora 890 NST

E. JointMaster's 1250 Series – Closed Cell Foam:

- Foam joint sealant is field compressed and is non-drying, non-shrinking, self-healing, and self-expanding.
- Exposed surface(s) is silicone coated with single faced configuration only.
- Excellent sound attenuation qualities (STC Rating = 48).
- Suitable for vertical seismic applications.
- Available in 26 standard colors (See JointMaster's Color Guide), custom colors available.
- Foam seal shall meet the following requirements:
 Density: 10 lbs per cubic foot (160 Kg per cubic meter).
 Thermal Conductivity: R-4 ASTM C177
 Water Absorption: <.02lbs/cubic feet ASTM D3575
 Tensile Strength: 120 PSI minimum per ASTM 3575.
 Elongation: 250 percent ASTM 3575.
 Tear Resistance: 21.5 lbs/in. ASTM D624
 Resistance to Aging: Excellent.
 Staining: None.
 Mildew Resistance: Excellent.
 Outdoor Exposure: Excellent.
 Shelf Life: 2 years.
 Thickness: [1 inch to 12 inches].
 Durometer Hardness: Shore A 15pts. ASTM D2240
 Color: Primary Dow 790 silicone colors and Secondary Pecora 890 NST

2.04 ACCESSORIES

A. Cleaners 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.
- Do not proceed until correction of unsatisfactory conditions.
 - 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.

END OF SECTION

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