Installation Instructions

Joint Series: 1200 Foam Seal

Health & Safety

When working with this product, fibers that come in contact with skin may cause temporary irritation


Ventilate work area if possible


Cover exposed skin when working with product


Wear goggles when working with this product


Rinse all exposed skin with cold water before washing


Waste should be disposed of according to local regulations

Warning: Do not remove outer shrink wrapping from the Fire Rated Foam stick until you have read and understand the FULL instructions for proper installation. Failure to follow these directions may degrade fire endurance performance or make the material unsuitable (expanding before installed) for installation.

Recommended Tools:

• Tape Measure, Sharp Knife, Miter Saw, Painters Tape, Denatured Alcohol, Wood Wedges, Caulking Gun, Caulking Trowel, Duct Tape, 2 Empty Clean 1 Gallon Containers, Lint Free Rags

Items Included in Shipment for Joints < 6" [150mm]:

- 5' [1.5m] Precompressed 1200 Foam
- Color-Matched Silicone Sealant
- In shipment for joints > 6" [150mm] flexible seal seam sealant
- 2- part Gel-Loc Epoxy w

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Material Sizing:

• Measure joints every 5-7 feet [1.5-2m] to ensure the opening is correct for the supplied material. Verify joint depth is sufficient to fully recess foam.

Material Preparation:

• Store the material at a minimum of 68°F [20°C] for at least 24 hours before the installation, regardless of the temperature at the installation site.

• **NOTE:**Storing material in cold temperature will increase the amount of time required for the foam seal to fully expand.

• Store the materials in a dry enclosed area. Keep material off the ground and out of direct sunlight. Do not allow water to come into contact with the foam until fully installed, sealed and cured!

Joint Preparation:

Concrete:

• Verify the joint is clean and sound for installation of the joint sealant. Use compressed air to clear any loose debris from the joint. Apply alcohol to a clean cloth and wipe the joint walls to the depth of 1" [25mm] below the sealant material.

• Ensure Joint is parallel and plumb along entire length, joint depth must have a depth greater than or equal to the full depth of the material, plus 1/2" [6mm] **See Fig A**

• Verify that the joint is uniform. Repair any spalls prior to installation using proper materials and methods to ensure against water intrusion through honeycombing or excessive hairline cracks.

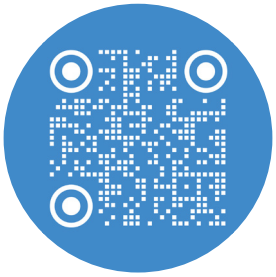
Metal (Applicable for deck pour stops when the exposed metal at under side of deck is fire proofed):

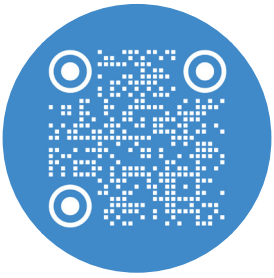
• Confirm that the metal is clean and has no secondary finishes.

• Wirebrush both sides of joint as deep as the foam system requires (see details or technical data). Then wipe down with alcohol.

• **NOTE:** Additional substrates are also feasible such as but not limited to: wood framing, exterior sheathing, CMU, composite pannels. Contact your Rep. if questions remain.

• Apply protective blue painters tape to face finish edges to prevent silicone and epoxy from contacting the deck surface.


1200 (5.5" [140mm] or less)


1200 (6" [152mm] or larger)

IPC.930/Rev.9

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Installation Instructions

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Fig A

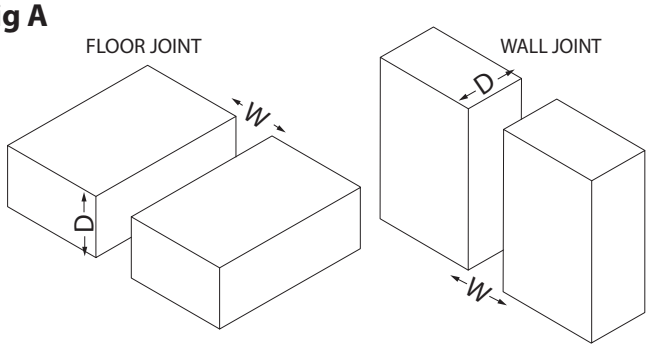


Fig 1

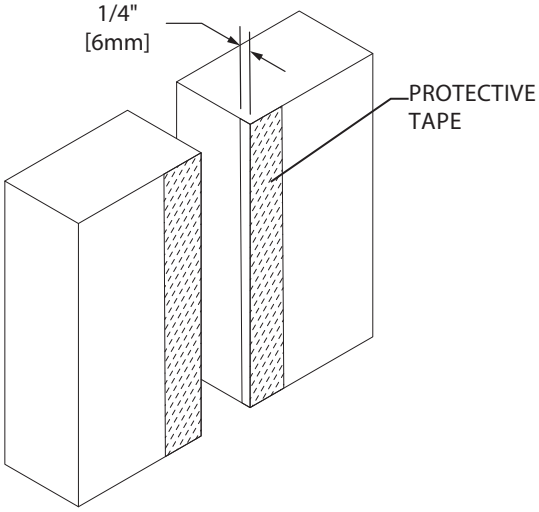


Fig 2

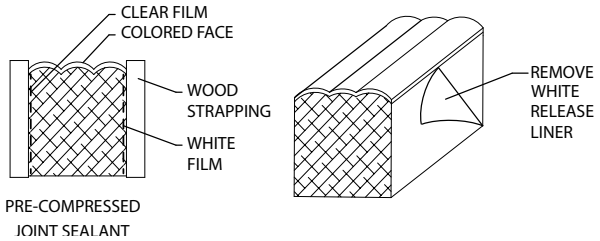


Fig 3

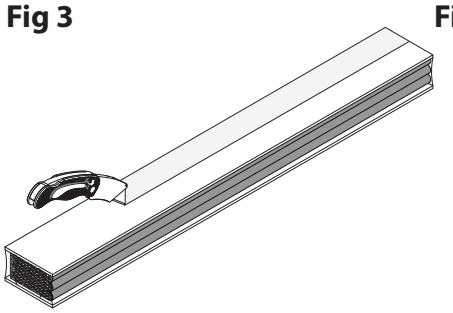
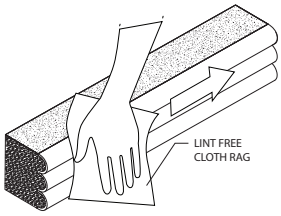


Fig 4



• **NOTE:** Additional substrates are also feasible such as but not limited to: wood framing, exterior sheathing, CMU, composite pannels. Contact your Rep. if questions remain.

• Apply protective blue painters tape to face finish edges to prevent silicone and epoxy from contacting the deck surface.

Important Note on Pre-Compressed Foam Seal:

• Material is made to order, Keeping Pre-Compressed foam seals in storage for longer than 2 weeks will greatly increase the amount of time required for the foam seal to reach maximum expansion.

• NOTE: Material may take up to 72 hrs. to fully expand. Instalation temperature range without protective measures: 50-90°F(7-32°C).

• NOTE: In cold temperature installations, provide as much ambient heat as possible around the installed joint (after installation) to accelerate the rate of material recovery.

CRITICAL Place marks on the deck or wall surface 1" [25mm] shorter than the product length (i.e. foam received is 61" [1549mm], mark floor at 60" [1524mm] O.C.) to ensure foam is installed with proper compression at seams.

Installation of Joints <6" [150mm]:

NOTE: Seals for joints smaller than 6" [152mm] will have a white film on one side, and a clear film on the other side. (See Fig 2)

1. For joints with a nominal size smaller than 6" [152mm], apply a continuous bed of the supplied color matched silicone sealant, 1/16" [1.5mm] thick, to the full depth of the seal on the side of the joint wall to receive the clear film side.

2. To remove 1200 Foam from shrink wrap, cut the plastic packaging by cutting on the hard board along the length of the stick DO NOT cut along the silicone face. Remove hard board and inner release liner. **See Fig 3**

3. Silicone face may be coated in the factory with a release powder. Prior to installation, this agent must be wiped off in order for the finish bead to properly adhere along the edge of the 1200 system. **See Fig 3**

   To remove the release agent, lightly and thoroughly wipe the cured silicone facing with a lint-free rag dampened with water. **See Fig 4** (Not required for uncoated material)

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Installation Instructions

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Fig 5a

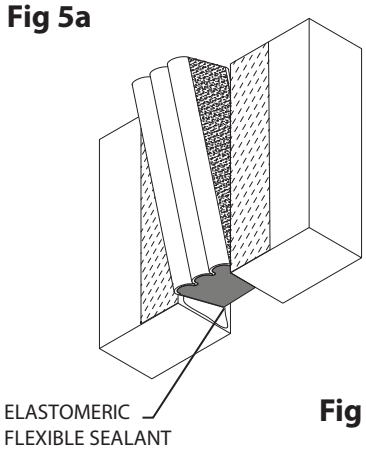


Fig 5b

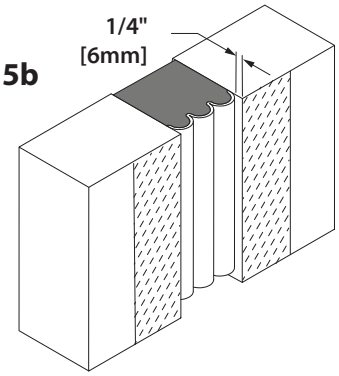


Fig 7

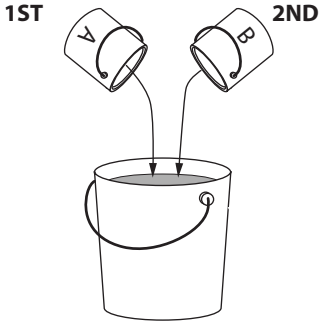
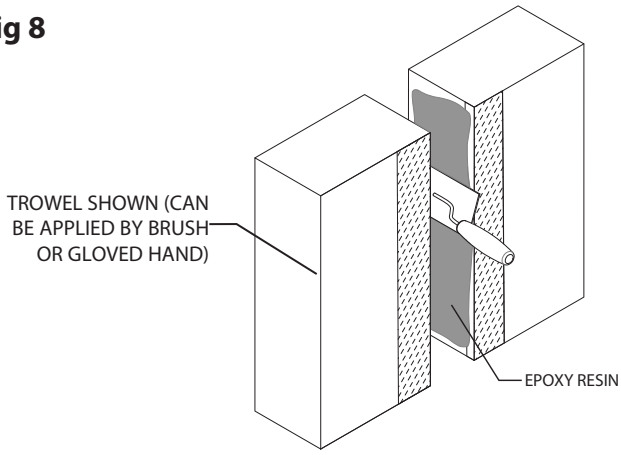


Fig 8



4. Remove the white release liner on the side of the seal (**See Fig 3**) and place the material into the joint, starting at the bottom of the 1200 foam stick, while gently pushing the pressure sensitive adhesive (white film side) up against one side of the joint. Remove clear release liner and allow the material to expand and fill the joint, shim as required if foam expands unevenly. Note: If the PSA is hampering installation, use a spray bottle to wet the adhesive surface of the seal (will not affect the final sealing properties).

   After verifying that the epoxy on the joint has not cured, install the foam into the joint. For vertical conditions begin installation starting from the bottom of the joint working upward. **See Fig 5a**

5. Starting intallation of wall foam at the base. Starting from the bottom of the 1200 Foam stick, insert material into the joint opening, ensure the silicone surface of the seal is facing outwards. The material should fit securely and must be installed into the substrate to the fully installed depth, (1/4" [6mm] below joint surface). When the material has expanded to a secure fit, it will support itself while the epoxy cures.
   See Fig 5b

   Use of wood shims or wedges may be necessary to compress foam in place at first. Remove once foam is self supporting before epoxy cures.

   NOTE: Ensure joint material is not stretched during installation by aligning seams with marks on the deck/wall applied before Step1.

   NOTE: Any joint that terminates with an exposed end and not terminating into another stick or structural termination MUST be coated on exposed end with color matched silicone after the system is installed, or by applying to terminating substrate. This will ensure the joint is properly terminated and exposed end of foam seal is protected from water absorption.

Joint Prep and Mixing Epoxy:
Installations of Joints > 6" [150mm]

6. Use painters tape or other suitable tape to protect exposed joint face. Return tape into the joint by 1/4" [6mm]. Also ensure areas under the joint are also protected from drips.
   See Fig 1

7. Epoxy adhesive may be used in the >40°F (5°C) to 95°F (35°C) temperature range. Transfer the contents of Part B (hardener) and the contents of Part A (base) into a clean bucket.
   See Fig 7

   Mix the material thoroughly with a low speed drill (300 rpm) for 3 minutes. Scrape the walls and bottom of the container to ensure uniform and complete mixing with no streaks.

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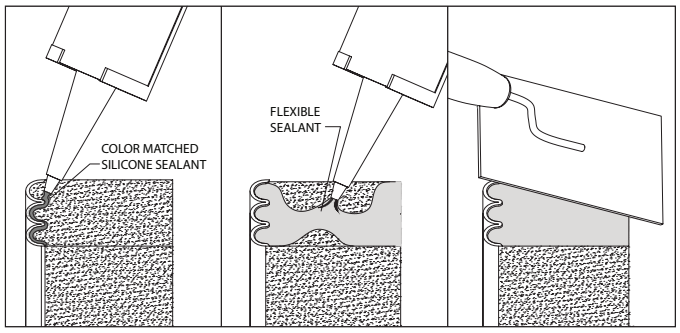
Fig 9a **Fig 9b** **Fig 9c**



NOTE: Joint substrate not shown to aid in clarity only

Fig 10

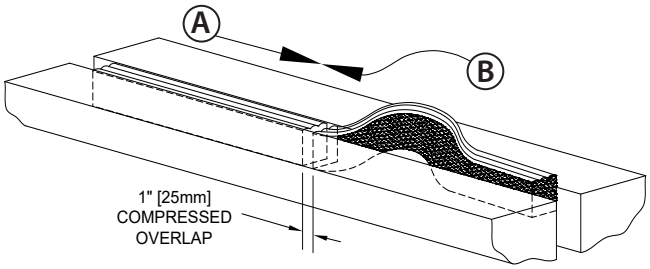


Fig 11

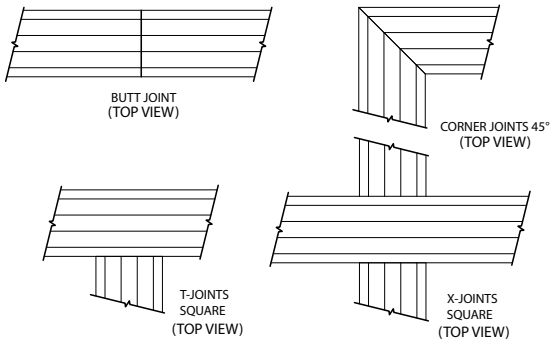
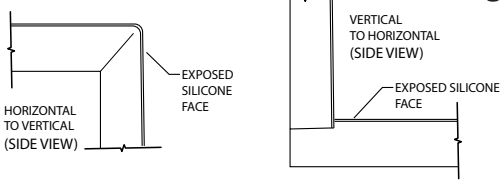


Fig 11 B **Fig 11A**



NOTE: Normal pot life at 77°F is 30 min. For every +20°F [10°C] epoxy cures twice as fast; While every -20°F [10°C] epoxy cure time doubles. Epoxy will harden faster when left in the mixing pot, due to the heat it generates. Because of this, apply epoxy to the joint as soon as possible to slow the curing time.

TIP: Mix only the required amount of the epoxy that will be used within 30 minutes to prevent the epoxy from curing prematurely.

WARNING: NEVER thin the epoxy or attempt to prepate 1/2" mixtures.

8. Use a trowel, chipbrush, or gloved hand to apply the mixed epoxy on both sides of the joint edge in a uniform layer, to a consistent depth of 1/16" [1.5mm]. **See Fig 8**

While applying epoxy to the joint faces, others should prepare the 1200 Foam for installation into joint opening. DO NOT Remove the 1200 Foam from its original shrink wrapped packaging until its equivalent length of joint has been prepared.

Epoxy must still be uncured, and tacky when installing the 1200 system.

9. After the first 1200 stick is installed to the proper depth, run a continuous bead of supplied color matched silicone along the edge of the foam face. **See Fig 9a**

Apply the supplied flexible seal seam sealant on the end of the installed Foam, ensuring to completely entomb end in sealant. **See Fig 9b**

Flatten the flexible seam sealant to an even 1/16" [2mm] thickness. **See Fig 9c**

10. To install next length of 1200 Foam, repeat instructions 2-5. Verify that the new piece of material is cut square and not at an angle to the previous material installed.

Tip: Apply denatured alcohol to the knife for a smoother cut or heat blade with propane torch for easy cuts.

***Critical*:** All seams must be in compression with previous seal. Install with 1" [25mm] compressed overlap and ensure alignment with previously applied marks on the deck. Install the far end of the seal and work back towards the previous piece. **See Fig. 10**

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Fig 12

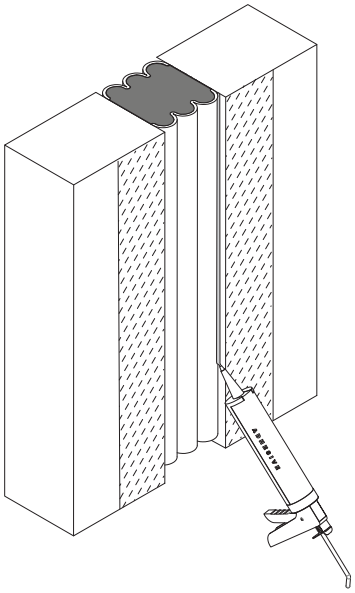
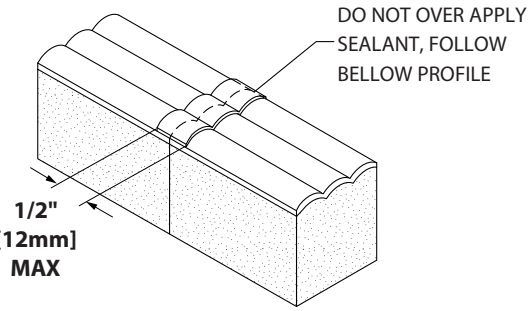
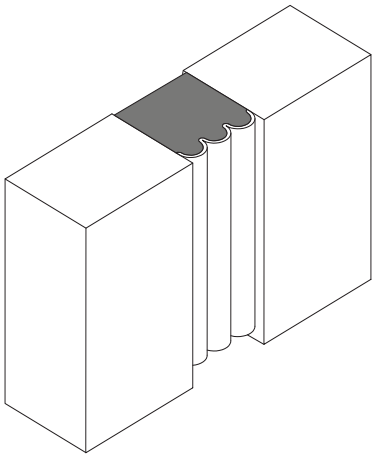


Fig 13



NOTE: Joint substrate not shown to aid in clarity only

Fig 14



Transitions:

11. Install horizontal material first. Butt the vertical material up to the horizontal material following steps 1+2.

12. **Inside Corner:**
Begin the installation at the horizontal condition. At the point of tran-sition cut a V-notch in the back of the foam seal, making sure not to cut through the face of the seal. Fold foam seal downward, and seal the connection with the provided flexible seal seam sealant.

13. **Outside Corner:**
Starting at one end, cut the silicone face of the horizontal foam seal to create a matching notch for the vertical seal to seat in. Install horizontal seal, then continue installing vertical seal. Seal the connection with the provided flexible seal seam sealant and silicone.

NOTE: If foam is installed using epoxy, remove tape from inside joint wall.

Finishing - Fig 11 - 13 Color-Matched

14. Use the silicone sealant along each edge of the joint. **See Fig 12**

15. Tool the silicone over all seams and transitions using a small caulking tool.

16. Evenly spread the silicone on exposed seams to allow for a clean, aesthetic finish.

17. **Important:** When siliconing seams or transitions at face seal, ensure bellow profile is carefully followed to allow joint to flex. **See Fig 13**

18. Remove any excess silicone left on the surface of the material or substrate.

WARNING: Do not allow the silicone to cure before removal.

19. Remove the protective tape from the substrate surface.

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