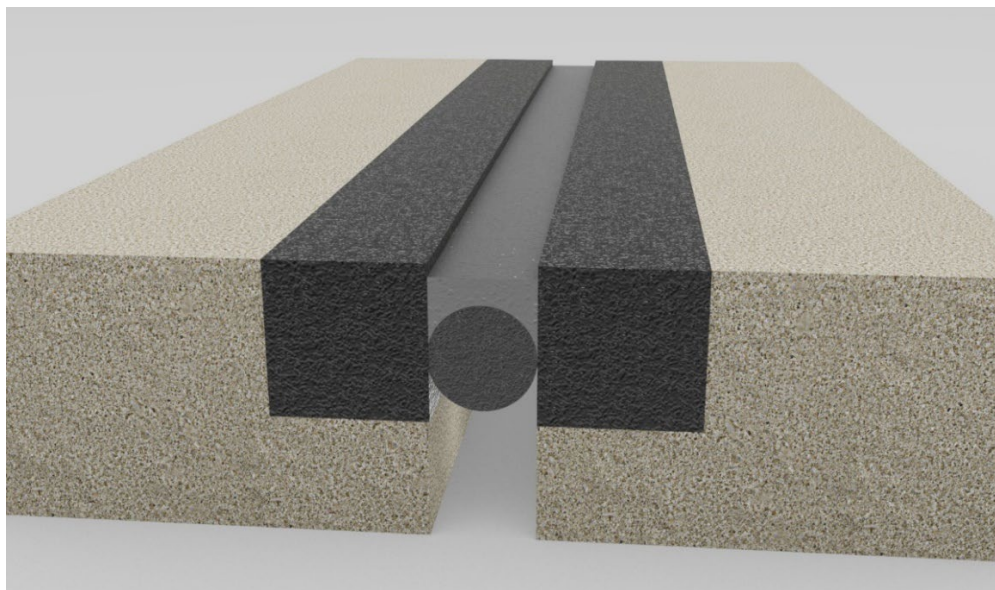


Installation Procedure

Last Updated: September 2025



Wabo® SiliconeSeal

High Performance Silicone and Elastomeric Concrete Expansion Joint System for Bridge & Highway Application

The following installation procedure is very important and must be fully understood prior to beginning work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

- 1) Carefully read and understand installation procedure. Contact WBA's Technical Service Department at (800) 677-4922 for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (800) 677-4922 with WBA's order number and invoice for prompt assistance.
- 3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.
- 4) Review WBA shop drawings for project specific detailed information if Engineering services were purchased at time of order.

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Health & Safety

During the installation of any Watson Bowman Acme product, appropriate personal protective items should be worn at all times, including but not limited to the following:

- Proper work clothing
- Safety glasses
- Safety boots
- Gloves
- Hard hat



Local rules and regulations regarding safe work environments and health should be followed.

Pre-Installation Notes

The work shall consist of furnishing and installing an elastomeric concrete joint system in accordance with the details shown on the plans and the requirements of the specifications prior to installation of backer rod.

Surface Preparation

1

Repair any spalls, voids, or structural cracking at the joint interface.

2

The joint opening must be prepared to a CSP2 profile to remove all laitance and contaminants which may cause bonding problems.

3

The joint opening should be blown clean using oil and water-free compressed air (>90psi)

Backer Rod Placement

1

A non-gassing, expanded polyethylene foam rod is recommended (do NOT puncture backer rod).

The rod acts as a bond breaker, preventing the Wabo®SiliconeSeal from bonding to the bottom of the joint and preventing the flow of the material through the joint itself.



The size of the backer rod should be 25% greater than the joint opening and should be positioned in the joint such that the top of the rod is 1 1/4" below the riding surface. Adjacent sections shall be taped together to eliminate voids, duct tape preferred. NO MODIFICATIONS TO SUPPLIED BACKER ROD.

Application of Wabo®SiliconeSeal

1

- 1) Material should be precondition prior to use in a climate-controlled situation.
- 2) Assemble gun per manufactures guidelines.
- 3) Remove cap plugs from cartridge.
- 4) Screw mixing tip onto cartridge being sure threads are properly engaged.
- 5) Place cartridge into gun towards front of carriage making sure retainer clips are engage.
- 6) Set pancake compressor to 50 psi and perform test trial to confirm proper pressure and mixing consistency.
- 7) If necessary, adjust gun pressure at handle accordingly to ensure proper flow of material.



NOTES:

The Wabo®SiliconeSeal should be applied using proper dispensing equipment such as Albion AT1500X Pneumatic Caulking Gun (for dual 50.72 oz cartridges) which can be purchased from Watson Bowman Acme or Johnston or Graco/Pyles extrusion pump for 10-gallon kits.

3

Mixing tips can be purchased from Watson Bowman Acme to assure proper fit to cartridge. Note: material should be mixed using 1/2" dia. 18 element static mixer or greater. Must be purchased separately from silicone material.

4

Do NOT use a tow-behind compressor for installation. Instead use a pancake compressor not to exceed 50 psi.



Wabo®SiliconeSeal Placement



1

Application of the Wabo®SiliconeSeal should be in one direction only and from the bottom of the joint, up.

The Wabo®SiliconeSeal shall be applied to a thickness of $\frac{3}{4}$ " minimum while not exceeding $\frac{5}{8}$ " and maintaining a $\frac{1}{2}$ " recess from the riding surface.

2

Wabo®SiliconeSeal will begin to cure and form a surface skin within 20 minutes of application. The seal will be ready to accept traffic generally within one hour after installation. If any air bubbles protrude during installation, be sure to pop them. The seal will be ready to accept traffic within one hour after installation.

Caution: Do not allow material to remain static in mixer longer than five (5) minutes without changing to a new static mixer. Uncured sealant can be removed with the use of solvents such as naphtha or mineral spirits.

Wabo®SiliconeSeal Stage Construction or Repair

1

Remove the damaged material in the expansion joint until the center of the joint is $\frac{1}{2}$ " thickness. Remove any silicone or debris from the side of the joint opening.

2

Remove all silicone within 6" on each side of the cut-out area, ensuring the surface is thoroughly cleaned. Replace the backer rod. Apply a thin layer of new silicone, overlapping 6" on each side. Allow it to cure.

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