

INSTALLATION PROCEDURE



Wabo[®]XPE

Preformed impermeable UV stable gray foam joint seal

RECOMMENDED EQUIPMENT

Watson Bowman Acme Corp (WBAC) recommends the following for ease of installation:

- Sandblasting equipment to remove laitance on blockout concrete
- Air compressor to operate sandblaster (and pneumatic gun when using Wabo[®]GelAdhesive)
- Denatured alcohol and putty knife to clean exposed seal profile
- Clean, cotton rags to use with denatured alcohol
- Heating iron to splice seal and other directional changes

A. GENERAL

The work shall consist of furnishing and installing Wabo[®]XPE joint seal in accordance with the details shown on the plans and the requirements of the specifications. Placement of the Wabo[®]XPE joint seal shall consist of proper surface preparation, sole source Manufacturer specified materials, and proper application.

B. SUBSTRATE PREPARATION (Concrete New or Aged)

The concrete joint interface must be clean (free of dirt, coatings, rust, grease, oil and other contaminants), sound and durable. New concrete must be cured (minimum of 14 days) and all laitance removed. Sound, durable concrete shall have a recommended cap pull-off strength that

meets or exceeds ACI 503R, Appendix A criteria.

Forming materials should be removed to avoid edge spalling of the concrete. Joint gap edges should be chamfered to help prevent small fractures and edge spalls. Edge spall conditions should be repaired and allowed to properly cure prior to installation of the Wabo[®]XPE joint seal. Repairs shall be made as directed by the Engineer of Record.

The preferred method of surface preparation to produce laitance-free, roughened sidewalls is abrasive blasting. Where this is not permitted, disc grinding shall be employed. Care should be taken to ensure an abraded surface is achieved by use of a coarse disc. The gap openings shall be blown out with clean air to remove dust.

C. SUBSTRATE PREPARATION (Steel – New or Existing)

When bonding to steel surfaces, inspect the steel to ensure it is in good condition. If pack rust or heavy oxidation is present, it must be removed to bare steel. If steel loss is too great as determined by the Engineer of Record, the steel substrate will need to be removed and replaced. Dry abrasive blasting using compressed air, blast nozzles and abrasive is recommended. SSPC-SP10 near white blast cleaning will provide the best profile. Blasting must be done just prior to seal installation. Blow off area using clean compressed air. Please refer to SSPC reference materials for proper methods, materials and specifications for steel preparation.

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It is recommended to remove the galvanizing of galvanized steel surfaces immediately prior to seal installation for best results.

Stainless steel surfaces require aggressive grinding and blasting to remove smooth surfaces for acceptable installation.

Contact WBAC Technical Service for any unique conditions or project specific concerns.

D. SUBSTRATE PREPARATION (Elastomeric or Viscoelastic Concrete)

Once the header has achieved cure time (see header product data sheet for stated cure time) remove form work. Abrasive blast the face of opening that will receive foam seal adhesive. The profile should be close to an 80 to 100 grit sandpaper texture. Grinding is acceptable if an aggressive wheel is used. Blow of the area using cleaned compressed air.

E. SEAL PREPARATION

Prior to installation, the profile shall be uncoiled from shipment packaging and allowed to reach a relaxed condition. The Wabo®XPE joint seal profile shall be cut to the correct length for installation. Care should be taken to extend the profile to its full length, without exerting any tension or stretching of the seal.

Ensure joint opening falls within the design parameters of the seal. The nominal width should be approximately 25% larger than the joint opening. As long as the seal size

falls between 10% and 35% you can install the seal. It is recommended that duct tape or plastic be placed along adjacent construction to minimize clean up.

F. PACKAGING / COMPONENTS

The Wabo®XPE joint seal shall be shipped in longest practical continuous lengths in Manufacturer's standard shipping carton. The Wabo®XPE Bonder adhesive, or Wabo®GelAdhesive when used, shall be shipped in Manufacturer's labeled containers.

G. SEAL SPLICE PROCEDURE

The bond at the splice location is achieved by heat welding. Heat welds and splices and other directional changes should be cut and made prior to seal installation. Ensure that the surfaces to be bonded together are both smooth so that full bearing contact can be achieved. Carefully align the ends of seal together after heat welding the surfaces and force together with an even pressure. All welds/splices should be allowed to cool before mixing the adhesive.

Directional changes: heat welds are not required for all turns. For vertical turns the maximum angle the joint material can sustain without heat welding is 115 degrees. For horizontal turns the maximum angle the joint material can sustain without heat welding is 135 degrees. Heat welds will add to the aesthetics of an installation and are required for 90 degree turns

H. MIXING OF Wabo®XPE BONDER ADHESIVE

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Pre-mix components, Part A and Part B of the Wabo®Bonder adhesive separately. For smaller batches mix 3 parts of Part A with 1 part of Part B in a clean plastic pail. Mix the Wabo®Bonder adhesive for approximately 3 minutes or until there is no marbling

Start cleaning excessive adhesive from the seal immediately using a plastic putty knife. Wipe down the seal with a clean white cotton rag saturated in denatured alcohol. DO NOT allow the epoxy to dry on top of the seal.

I. ALTERNATE Wabo®GelAdhesive

Proper use and instructions for application of Wabo®GelAdhesive can be found on WBAC's website.

Walk the joint line inspecting workmanship before the epoxy cures. Make adjustments as needed. Allow the joint and bonder approximately 20 min (at 77°F) before traffic is allowed onto the joint. Longer cure times will be needed during colder temperatures.

J. SEAL INSTALLATION

Apply mixed Wabo®XPE Bonder adhesive by brush, trowel, caulking gun or by hand with rubber gloves. Apply enough to coat the substrate to approximately 40 mils (1 mm). Apply enough bonder to match the width of the seal on both sides of the opening. This is best applied by using a gloved hand or brush.

Lay the precut piece of seal over the joint opening on its side and apply epoxy filling the grooves of the seal. Flip the seal and apply epoxy in remaining grooves. Start installing the seal pushing into joint opening. Do not stretch or place in at an angle. This will elongate the seal. If needed a blunt tool such as a wooden axe handle can be used to push the seal down. A typical recess of ¼" is suggested from finished grade working of the lower side of the deck if there is an offset.

WaboXPE Foam_0415

LIMITED WARRANTY:

Watson Bowman Acme warrants that this product conforms to its current applicable specifications. WATSON BOWMAN ACME MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of Watson Bowman Acme. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL WATSON BOWMAN ACME BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES. Other warranties may be available when the product is installed by a factory trained installer. Contact your local Watson Bowman Acme representative for details. The data expressed herein is true and accurate to the best of our knowledge at the time published; it is, however, subject to change without notice.

Contact

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