

INSTALLATION PROCEDURE



Wabo[®] SurfaceMend

Gray Polymer Concrete

www.watsonbowmanacme.com

RECOMMENDED EQUIPMENT

Watson Bowman Acme recommends the following equipment and tools for ease of installation

- Two-inch (2") hand margin trowels
- Sandblasting equipment to remove laitance in new concrete, and debris or other contaminants for joint replacement in blockout area
- Portable (pneumatic tire type recommended), drum batch mixer with heavy duty mixing paddle/scrapper to mix product. Minimum drum size of 3.5 cubic feet for one (1) cubic foot units to be mixed
- Float for finishing
- Citrus based solvent
- Electrical power to run drum mixer
- Slow speed drill
- Proper safety PPE (glasses, leather gloves, hard hat, steel toe boots, high visibility work vest, etc.)

Example of portable drum mixer
(3.5 cubic foot)



Please ask a WBA representative for portable drum mixer recommendations larger than 3.5 cubic feet.

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A. Standard Components & Storage

- Store material at minimum of 40°F* (4°C)
***Note:** Precondition material to 70°F if installation temperatures are between 40°F-70°F
- Store material in a dry enclosed area making sure materials are off the ground and out of direct sunlight. Shaded areas recommended

For ambient temperatures between 40°F (5°C) -70°F (21°C) WBA recommends the use of **MasterFlow 640 accelerator**. Please contact WBA for more information.



Wabo®SurfaceMend Part “A”

WBA Part #50005 - 1.0Gal.

WBA Part #50003 - 5.0Gal.

Wabo®SurfaceMend Part “B”

WBA Part #50005 - 1.0Gal.

WBA Part #50004 - 5.0Gal.

Wabo®SurfaceMend Part “C”

(Aggregate = ~ 50lb bag)

WBA Part #50002

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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. Contact WBA if earlier placement of material is required. Sound, durable concrete shall have a recommended cap pull-off strength that meets or exceeds ACI 503R, Appendix A criteria.

Edge spall or slant shear bondline conditions should be keyed out prior to installation of the Wabo®SurfaceMend header, following ACI guidelines.

The preferred method of surface preparation is abrasive blasting. A minimum CSP 2 profile (The profile should be close to an 80 to 100 grit sandpaper texture). 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

Contact WBAC Technical Service for any unique conditions or project specific concerns.
800-677-4922

D. General

The work shall consist of furnishing and installing Wabo®SurfaceMend Gray Polymer concrete in accordance with the plans and the requirements of the specifications. Placement of the Wabo®SurfaceMend Gray Polymer concrete shall consist of proper surface preparations, material and application of materials.

E. Mixing of Wabo®SurfaceMend

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Utilizing a slow speed drill premix Part A separately for approximately 45 seconds.

Empty Part A and Part B in the proper ratio (1:1) into a portable mortar mixer, and mix both liquid components for approximately three (3) minutes. All pails must be fully emptied to ensure proper mix ratio (completely scraped out) as shown at right.



F. Mixing of Wabo®SurfaceMend (cont'd)

Add two (2) pre-weighed bags of aggregate to the mix for approximately 3-5 minutes.

Wabo®SurfaceMend when mixed properly should be an even gray color with no dry pockets of aggregate.



G. Placement of Wabo®SurfaceMend

Pour the mixed unit into the prepared blockouts. Compaction is required to ensure

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proper consolidation, and can be achieved through the use of a trowel end or float. Finish of the material can be achieved by use of a mag float, and material must be level with the adjacent roadway surface (see picture). A citrus based solvent can be used on the float if needed.



H. Open to Traffic Times

Wabo@SurfaceMend is an ambient cure material. “Open to Traffic Times” are, therefore, temperature dependent. Precondition the raw materials and the blockout areas to a minimum of 80°F prior to mixing and installing Wabo@SurfaceMend if project requires faster times.

(without Accelerator)

50°F (10°C)	12 hours
60°F (16°C)	8 hours
70°F (21°C)	5 hours
80°F (27°C)	3 to 4 hours

(with Accelerator)

50°F (10°C)	6 hours
60°F (16°C)	4 hours
70°F (21°C)	3 hours

I. Field Service Assistance

Throughout our history, particular attention to providing best in class products and services to our customers has been a key focus. Watson Bowman Acme as a result offers Field Service Assistance. Please contact us to discuss rates

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and schedules with our Field Service representatives to address any unknown field conditions, project specific recommendations and the proper installation procedures of our products.

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: 800-677-4922

Watson Bowman Acme, 95 Pineview Drive, Amherst, NY 14228

phone: 716-691-7566 / fax: 716-691-9239 / web site: <http://www.watsonbowmanacme.com>

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