

Wabo® SurfaceMend

Epoxy Polymer Concrete

Features	Benefits
• Fast Total Installation Time	Minimal work is required to the blockout prior to placing material. A primer is not required. Multiple units can be mixed in larger batches for higher working volumes
• Moisture Insensitivity	Installation can occur in conditions where moisture may be a factor
• Superior Bond Strength	Specially formulated polymer forms a tenacious bond to concrete and other adjacent construction materials
• High Strength	Industry leading compressive strength for the most demanding applications
• Gray in color	Finished appearance blends into adjacent construction and is approved for use in Airport facilities.

DESCRIPTION:

Wabo®SurfaceMend is a two (2) part specially formulated polymer concrete system designed for use in exterior applications on bridges and airports. When mixed with our proprietary aggregate, the impact resistance and flexibility of this product's high tensile elongation is combined with industry leading compressive strength to provide impressive durability for the most demanding applications.

Total installation time can be reduced when compared to similar header products. Proper blockout preparation is easily achieved with the simple removal of any loose material, debris, oils or other contaminants through the use of abrasive blasting.



*Note: Filling of voids and application of a primer is NOT required prior to installation, and multiple units can be mixed at one time to increase working volume.

RECOMMENDED FOR:

- Expansion joint header for new and restoration applications
- Spall repair of existing headers and adjacent concrete decks
- Patching airport concrete runways and tarmac areas
- Anywhere epoxy partial depth repairs are required

PACKAGING/COVERAGE:

- Wabo®SurfaceMend mix:
 - Part A – 1 gallon
 - Part B – 1 gallon
 - Part C – 47.5 pound bag of aggregate- 2 required
- Yield – 1 gallon units:
 - A + B + (2 bags) C = One unit
 - One unit = 1.0 cubic foot

MATERIAL PROPERTIES

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIRMENTS
Liquid Components		
Color		Gray
Tensile Strength	D 638	2,000 psi, min.
Elongation at Break	D 638	60%, min.
Hardness, Shore D	D 2240	45 – 75
Gel Time	M 200-73	15 minutes, min.
Mixing Ratio		1:1 by volume

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIRMENTS
Mixed Unit		
Compressive Strength,	C 579, 24 hr., Method B	3,200 psi., min.
Bond Strength	C 882	2,000 psi., min. ¹
Abrasion Resistance	C 501, Taber H-22	0.02, max. ²

¹ Specimen values at concrete break shall be noted.

² Value calculated using the following equation from ASTM C 501:

$$(W_o - W_f) / W_f$$

W_o = original weight of specimen and holder, g.

W_f = final weight of specimen and holder, g.

APPLICATION:

INSTALLATION SUMMARY:

- For newly placed concrete, the joint interface must be dry and clean (free of dirt, coatings, rust, grease, oil, and other contaminants), sound and durable. New concrete must be cured (minimum of 14 days).
- For aged concrete, the joint interface should be sound. Loose, contaminated, weak, spalled, deteriorated and/or delaminated concrete must be removed to sound concrete.
- Concrete substrates must be abrasive blasted to remove all laitance and contaminants which may cause bonding problems. Steel substrates must be sound and abrasive blasted SP-10, near white, immediately prior to installation.
- There must be no visible moisture (puddling) prior to the application of product.
- Thoroughly empty part A and part B in the proper ratio (1:1) into a portable mortar mixer, and mix both liquid components for approximately 3 minutes. All pails must be fully emptied to ensure proper mix ratio.
- Place the pre-blended bags of aggregate into the mortar mixer. It is recommended to place the first bag of aggregate in and allow it to fully wet out prior to adding the second bag. Mix full unit for three (3) to four (4) minutes until the product has uniform consistency with no dry pockets of aggregate.
- Pour the mixed unit into the prepared blockouts. Compaction is required to ensure proper consolidation, and can be achieved through use of a trowel 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. A solvent can be used on the float if needed.
- For deck temperatures between 40°F and 70°F, it is recommended to tent over material and heat. Consult with a WBA representative for proper open to traffic times.

FOR BEST RESULTS:

- Install when concrete substrate is clean, sound, dry, and cured (14 day minimum).
- Do not allow any of the components to freeze prior to installation. Store all components out of direct sunlight in a dry location between 50°F (10°C) and 90°F (32°C). For installations at low deck temperatures (40° to 70°F) store all components in a dry, heated space so all materials achieve 70° prior to mixing.
- Do not install when surface temperatures are less than 40°F (4°C).
- Shelf life of components is approximately 2 years if stored properly.
- Periodically inspect the applied material and repair localized areas as needed. Consult a Watson Bowman Acme representative for additional information.
- Make certain the most current version of the product data sheet is being used. Please consult the website (www.watsonbowmanacme.com) or contact a customer service representative.
- Proper application is the responsibility of the user. Field visits by Watson Bowman Acme personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

OPTIONS/EQUIPMENT:

- Safety Data Sheets
- Wabo®SurfaceMend Specification
- Wabo®SurfaceMend Installation Procedure

RELATED DOCUMENTS:

- Two-inch (2") hand margin trowels
- A portable (pneumatic tire type recommended), drum batch mixer with heavy duty mixing paddle/scrapper to mix product. Minimum drum size of 1.5 cubic feet for one (1) cubic foot units. 10 gallon bucket with heavy duty drill and paddle can also be used.
- Float for finishing
- Solvent for cleaning tools
- Electrical power to run drum mixer

LIMITED WARRANTY:

Watson Bowman Acme Corp. warrants that this product conforms to its current applicable specifications. WATSON BOWMAN ACME CORP. 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 Corp. 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 CORP. 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.

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