

# Wabo®Crete II

Elastomeric Concrete

Features	Benefits
• Fast Curing	Short traffic closures. Traffic can be received depending on temperature, typically within one hour of completion.
• Abrasion Resistant	Accommodates heavy and repetitive impact loading and prevents further deterioration. No salt or freeze thaw damage.
• Versatility	Will bond to sound concrete, steel, and aluminum surfaces. Has the ability to bond tenaciously to itself monolithically.
• Reliability	The use of WaboBonding agent prevents any inherent moisture in the concrete from interfacing with WaboCrete II



## RECOMMENDED FOR:

- As an expansion joint header/nosing for various expansion joint systems
- Spall repair of existing joint headers/nosing applications.
- Void filler

## PACKAGING/COVERAGE:

- WaboCrete II mix:
  - Part A Activator – ½ gal container
  - Part B Resin - 1 gal container
  - Part C Aggregate - 5 gal container (60lbs)
- Coverage:
  - A+B+C = One Unit
  - One Unit = 1030 cubic inches or 0.6 cubic feet
- WaboBonding Agent:
  - Part A – 1 qt
  - Part B – 1 qt

## DESCRIPTION:

Wabo®Crete II is a two-component polyurethane expansion joint header with specialty aggregate, 100% solids material for use in exterior construction environments. WaboCrete II is a unique mixture which monolithically bonds the expansion joint to the deck, creating a waterproof system. WaboCrete II absorbs traffic impact loads and evenly disperses them into the deck, while allowing the system to flex with deck loads. It is resistant to ozone, UV, deicing chemicals, and abrasives. The addition of heat is not required to increase flow or cure the material. It will self level in the blockout.



## Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS
<b>Binder Only</b>		
Tensile Strength	D 638	750 psi min.
Elongation at Break	D 638	150% min.
Hardness (Shore D)	D 2240	30-49
Compression Set (22 hrs@158F)	D 395 (method B)	50% max.
Tear Resistance	D 624	80 lbs/in min.
Water Absorption (by weight)	D 570	3% max.
Heat Shrinkage	D 1299	1.6% max.
Oven Aging (@ 158F, 72 hrs) Tensile Strength Elongation	D 638	750 psi 150%
<b>Binder and Aggregate</b>		
Compressive Strength	D 695 (modified)	2,200 psi min.
Resilience (@ 5% deflection)	D 695	90% min.
Stress @5% deflection	D 695	800 psi min.
Impact Resistance @ -20F (-29C) @ 32F (0C) @158F (70C)	See Note 1	no cracks - 7ft-lbs min. no cracks - 7 ft-lbs min. no cracks - 7 ft-lbs min.
Adhesion to Concrete Dry Bond Wet Bond	See Note 2	400 psi min. 250 psi min.
<b>Notes:</b> 1 - Specimens are cast discs with a 2.5" diameter and 0.375" thickness. Specimens are conditioned for four hours at test temperatures. A one pound steel ball is dropped onto the center of the specimen through a plastic tube from an initial height of 5 feet. The drop height is increased by intervals until the specimen cracks. 2 - The briquette is sawed in half so that the cut surface area equals approximately 1 square inch. Surface is blasted and placed in a mold. WaboCrete II is cast against it. Specimen is submerged in water (seven days at room temperature). Using a riehle Briquette tester, failure of the specimen is considered to occur at either the bond interface or within one of the two materials.		



### 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. Any spalling, voids, or structural cracking at the joint interface must be repaired.
- Concrete substrates must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems. Steel substrates must be sound and abrasive blasted SP-10, near white, immediately prior to installation.
- WaboBonding Agent prevents any inherent moisture in the concrete from interfacing with WaboCrete II. Maximum moisture content allowed for installation is 5%. Apply WaboBonding Agent (primer) to surface of the properly prepared concrete prior to installation of WaboCrete II. Do not use WaboBonding Agent on steel substrates. There must be no visible moisture prior to the application of the primer. Primer can be brush applied. DO NOT allow primer to cure prior to placement of WaboCrete II.
- Thoroughly pre-mix (20 seconds) Part B separately before pouring entire contents of Part B into clean 5 gallon container. Add Part A and mix both components with a power mixer equipped with a butterfly paddle for approximately 30 seconds, or until well blended.
- Slowly add the aggregate component to the mixed liquids and mix until all aggregate is coated (approximately 1 minute). This mix can be poured into the properly prepared blockout, in which the primer is still wet. The material will flow and self-level.
- For sloped conditions, add WaboNon Flow Additive during liquid-aggregate mixing.

### Options/Equipment:

- Non-flow additive (sloped conditions)
- Two-inch (2") hand margin trowels
- Use a ¾" heavy duty, slow speed, high torque, drill with an egg-beater (or mud beater) style mixing paddle to mix WaboCrete II.
- One clean 5 gallon bucket

### 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).
- Do not install when surface temperatures are less than 40°F (4°C).
- Shelf life of components is approximately 1 year.
- 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.wbacorp.com](http://www.wbacorp.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.

### Related Documents:

- Material Safety Data Sheets
- WaboCrete II Installation Procedure

### Example of an "egg-beater" style mixing paddle.



### 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.

### Contact

Watson Bowman Acme Corp. 95 Pineview Drive, Amherst, NY 14228  
phone: 716-691-7566 / fax: 716-691-9239 / web site: <http://www.wbacorp.com>

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