WaboCrete® 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.
• Reliability	Proven track record throughout the world in all environments

DESCRIPTION:

WaboCrete®II is a two-component polyurethane expansion joint header with resin and 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.

When required - please contact WBA Representative for appropriate State-specific testing requirements and aggregate.

RECOMMENDED FOR:

- As an expansion joint header/nosing for various expansion joint systems
- Spall repair of existing joint headers/nosing applications.
- Selected path repairing

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
- Wabo® Bonding Agent:
  - Part A – 1 qt
  - Part B – 1 qt
  - 1 kit per 15 units

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PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENTS
BINDER AND AGGREGATE		
Foam Core	N/A	Cellular, high density, polyurethane foam
Compressive Strength	ASTM D 695 (modified)	2,200 psi min
Resilience (@5% deflection)	ASTM D 695	90% min
Stress @ 5% deflection	ASTM D 695	800 psi min
Impact Resistance @-20F (-29C) @ 32F (0C) @ 158F (70C)	See Note 1	 no cracks - 7fl-lbs min. no cracks - 7fl-lbs min. no cracks - 7fl-lbs min.
Adhesion to Concrete Dry bond Wet bond	See Note 2	 400 psi min 250 psi min

TEXAS ONLY

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENTS
BINDER AND AGGREGATE		
Wet bond strength to concrete	Tex-618-J	225 psi min
Compressive Strength, 24 hours	ASTM C579, Method B	750 psi min
Compressive Stress	Tex-618-J	750 psi min
Resilience	Tex-618-J	85% min

NORTH CAROLINA ONLY

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENTS
BINDER AND AGGREGATE		
Compressive Strength	ASTM D 695	2,000 psi
5% Deflection Resilience	ASTM D 695	95
Splitting Tensile Strength	ASTM D 3967	625 psi
Bond Strength to Concrete	ASTM D 882 (D882M)	450 psi
Durometer Hardness	ASTM D 2240	50

NOTES

1- Specimens are cast discs with 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 specimens 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 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.

3- In addition to the above, Elastomeric Concrete must be resistant to water, chemicals, UV and Ozone exposure and withstand temperature extremes. Elastomeric concrete systems requiring preheated aggregates are not allowed.

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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). Reduced placement time based on actual field conditions and moisture content. Does not exceed 5%
- 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. Repairs must be keyed into structural concrete. Slanted shear bond lines prohibited.
- Concrete substrates must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems. Braided wire wheel can be utilized where blasting is prohibited. Steel substrates must be sound and abrasive blasted SP-10, near white, immediately prior to installation. Galvanized steel clean with Xylene or wire wheel brush.
- Wabo®Bonding Agent prevents any inherent moisture in the concrete from interfacing with WaboCrete® II. Maximum moisture content allowed for installation is 5%. Apply Wabo®Bonding Agent (primer) to surface of the properly prepared concrete prior to installation of WaboCrete® II. Do not use Wabo®Bonding 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.
- Pour entire contents of Part B into a clean 5 gallon container (scrape bottom and sides of can to assure all of part B is added). Add Part A and mix both components with a power mixer equipped with an eggbeater paddle for approximately 30 seconds, or until well blended.
- Slowly add the aggregate component (approx. 45 seconds) to the mixed liquids. Mix until all aggregate is coated (approximately 1 minute). Total mixing time 2½ minutes.
- 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 Wabo®Non Flow Additive during liquid-aggregate mixing.

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 and 90˚F.
- Do not install when surface temperatures are less than 40˚F. Surface temperature shall be 40 degrees and rising
- Shelf life of components when stored properly is approximately 18 months.
- 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.

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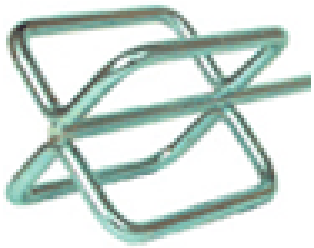
OPTIONS/EQUIPMENT:

- 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 style mixing paddle to mix WaboCrete® II.
- One clean 5-gallon bucket

RELATED DOCUMENTS:

- Material Safety Data Sheets
- WaboCrete® II Installation Procedure

Example of an “egg-beater” style mixing paddle:



LIMITED WARRANTY:

WaboCrete®_II_0624

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