Installation Procedure

Last Updated: April 25th, 2018

Wabo®Crete II
Elastomeric Concrete

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

1) Carefully read and understand installation procedure. Contact WBA's Technical Service Department at (800) 677-4922 for product assistance.
2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (800) 677-4922 with WBA's order number and invoice for prompt assistance.
3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.
4) Review WBA shop drawings for project specific detailed information if Engineering services were purchased at time of order.

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Health & Safety

During the installation of any Watson Bowman Acme product, appropriate personal protective items should be worn at all times, including but not limited to the following:

- Proper work clothing
- Safety glasses
- Safety boots
- Gloves
- Hard hat

Local rules and regulations regarding safe work environments and health should be followed.

Pre-Installation Notes

General: The work shall consist of furnishing and installing Wabo®Crete II elastomeric concrete in accordance with the plans and the requirements of the specifications. Placement of the Wabo®Crete II elastomeric concrete shall consist of proper surface preparations, material and application of materials.

Blockout Preparation for Wabo®Crete II Elastomeric Concrete: The blockout shall be constructed to the dimensions on the drawings. The concrete substrate 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. Suitable preparation methods include sandblasting, chipping and scarification. Acid etching is not encouraged, although it may be required.

Steel surfaces must be abrasive blasted SP-10 near-white, immediately prior to installation. This is a requirement in new or existing construction. All oxidation must be removed and “white steel” revealed. Where abrasive blasting is not permitted, steel surfaces will be aggressively disc-ground to roughen and abrade the surface to achieve the “white steel” condition.

Durable Concrete- sound and durable concrete should have a cap pull-off strength that meets or exceeds ACI 503R, Appendix A.

Unsound Concrete – Loose, contaminated, weak, spalled, deteriorated and/or delaminated concrete must be removed to sound concrete and repaired prior to placement of Wabo®Crete II elastomeric concrete.

Cracks – prior to placement of the Wabo®Crete II elastomeric concrete, repair cracks with Wabo®ConTrete crack sealer.
Installation

1. Wabo®Epoxing Bonding Agent must be used as a primer on the properly-prepared concrete before beginning the installation of the Wabo®Crete II elastomeric concrete. Mix Part A (resin) and Part B (hardener) separately in their individual containers before combining them together. Combine Part A and Part B, 1:1 by volume in a separate clean container. Mix thoroughly with an electric drill and “egg-beater” style mixing paddle, approximately 2 minutes or until color consistency is developed.

2. Brush-apply the primer to the concrete surface and immediately begin the installation of the Wabo®Crete II elastomeric concrete. DO NOT allow the primer to cure.

3. Thoroughly stir Part B separately before pouring entire contents of Part B into a clean 5-gallon container. Add Part A and mix both components with a power mixer equipped with “egg-beater” style mixing paddles for 30 seconds and until well blended.

4. Add the aggregate component to the liquid material and mix until all aggregate is coated (approximately 1 minute). This mix can be poured into the properly-prepared blockout. The material will flow and self-level.

5. Aggregate such as “Black Beauty” can be added to the surface to inhibit skidding. Clean tools with thinner or a solvent such as Xylol.

Additional Notes

Placement of Wabo®Crete II Elastomeric Concrete

The final blend of Wabo®Crete II elastomeric concrete is poured out of the mixing bucket and into the blockout area. Wabo®Crete II is an ambient cure material. Cure times are, therefore, temperature dependent. Suggested cure times are listed below:

Cure Time (Open to Traffic)  
70-90 °F (21-32 °C)  1- 1½ hours  
50-70 °F (10-21 °C)  1 ½ - 2 hours  
40-50 °F (4-10 °C)  2 –3 hours

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