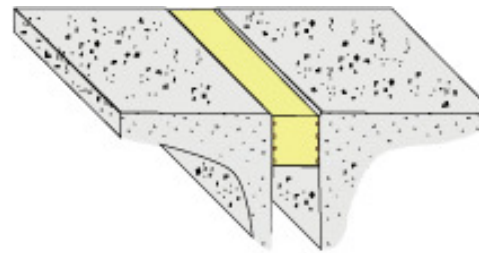




# Wabo®Evazote UV

Low Density, Closed Cell, Cross-Linked Nitrogen Blown Joint Seal

| Features   | Benefits   |
|--|--|
| <ul style="list-style-type: none"> <li>Versatile movement</li> </ul>       | Can accommodate movement of 90% of its nominal width, allowing 60% compression and 30% tension. The seal can also accommodate up to 120% shear movement. |
| <ul style="list-style-type: none"> <li>Nitrogen Blown</li> </ul>           | Profile minimizes dirt and debris in the joint opening. When compressed the center portion does not extend upward above the seals original height.       |
| <ul style="list-style-type: none"> <li>Simplicity</li> </ul>               | Minimal components and flexibility of seal allows for quick joint repairs and short traffic closures.  |
| <ul style="list-style-type: none"> <li>Hydrostatic Applications</li> </ul> | Standard system can accommodate up to 10 feet of hydrostatic pressure.   |



## RECOMMENDED FOR:

- Sealing joints on bridges, parking decks, stadiums, buildings and waste water treatment facilities
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths.

## DESCRIPTION:

Wabo®Evazote UV is preformed low density closed cell cross-linked ethylene vinyl acetate polyethylene copolymer nitrogen blown joint seal that is bonded into place with a two component 100% solids modified epoxy adhesive. Wabo®Evazote is capable of accommodating movements and variations in joint widths through compression and tension. The seal has a working ranging of 60% compression, 30% tension and 120% shear. The UV stability of Wabo®Evazote allows the seal to be resistant to abrasion, oxidation, oils, salt and other materials that are spilled on or applied to the surface. Grooves are placed along its edges to ensure and enhance its bond strength.

## PACKAGING/COVERAGE:

- Wabo®Evazote UV seal is cut to length and boxed per limitations of required shipping methods.
- Wabo®Evazote Bonder:

|        | <u>Volume</u> | <u>Container</u> |
|--------|---------------|------------------|
| Part A | 3 quarts      | 1 Gallon         |
| Part B | 1 quart       | 1 quart          |

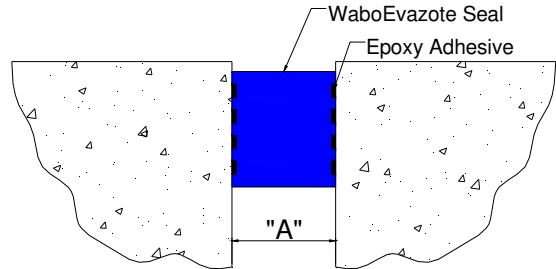
| Seal Depth |        | Yield  |        |
|------------|--------|--------|--------|
| 1"         | 25 mm  | 100 LF | 30.4 m |
| 2"         | 50 mm  | 50 LF  | 15.2 m |
| 3"         | 75 mm  | 35 LF  | 10.7 m |
| 4"         | 100 mm | 25 LF  | 7.6 m  |



**TECHNICAL DATA:**

**Design Information**

The design of the seal shall be capable of accommodating movement and variations in joint widths through compression and tension of its shape. Grooved sidewalls shall be 1/8" (3mm) wide by 1/8" deep (3mm) and spaced between 1/4" (6mm) to 1/2" (13mm) apart and run along the entire length of the bond surfaces of the seal to ensure an effective and quality surface for adhesion.



**Movement Table**

| Seal Size |     |        |     | Joint Opening @ 68 F(20 °C) |     | Joint Opening "A" |    |      |     |       |     |
|-----------|-----|--------|-----|-----------------------------|-----|-------------------|----|------|-----|-------|-----|
| Width     |     | Height |     | in                          | mm  | Min.              |    | Max. |     | Total |     |
| in        | mm  | in     | mm  |                             |     | in                | mm | in   | mm  | in    | mm  |
| 1.0000    | 25  | 1.000  | 25  | 0.75                        | 19  | 0.40              | 10 | 1.30 | 33  | 0.90  | 23  |
| 1.2500    | 32  | 2.000  | 51  | 1.00                        | 25  | 0.50              | 13 | 1.63 | 41  | 1.13  | 29  |
| 1.5625    | 40  | 2.000  | 51  | 1.25                        | 32  | 0.63              | 16 | 2.03 | 52  | 1.40  | 36  |
| 1.7200    | 44  | 2.000  | 51  | 1.38                        | 35  | 0.75              | 19 | 2.25 | 57  | 1.50  | 38  |
| 1.8750    | 48  | 2.000  | 51  | 1.50                        | 38  | 0.75              | 19 | 2.43 | 62  | 1.68  | 43  |
| 2.1875    | 56  | 2.000  | 51  | 1.75                        | 44  | 0.88              | 22 | 2.85 | 72  | 1.97  | 50  |
| 2.5000    | 64  | 2.000  | 51  | 2.00                        | 51  | 1.00              | 25 | 3.25 | 83  | 2.25  | 57  |
| 2.8125    | 71  | 2.500  | 64  | 2.25                        | 57  | 1.12              | 28 | 3.65 | 93  | 2.53  | 64  |
| 3.1250    | 79  | 2.500  | 64  | 2.50                        | 64  | 1.25              | 32 | 4.07 | 103 | 2.82  | 72  |
| 3.4375    | 87  | 2.500  | 64  | 2.75                        | 70  | 1.38              | 35 | 4.47 | 114 | 3.09  | 78  |
| 3.7500    | 95  | 2.500  | 64  | 3.00                        | 76  | 1.50              | 38 | 4.88 | 124 | 3.38  | 86  |
| 4.0625    | 103 | 3.000  | 76  | 3.25                        | 83  | 1.62              | 41 | 5.28 | 134 | 3.66  | 93  |
| 4.3750    | 111 | 3.000  | 76  | 3.50                        | 89  | 1.75              | 44 | 5.69 | 145 | 3.94  | 100 |
| 4.6875    | 119 | 3.000  | 76  | 3.75                        | 95  | 1.87              | 47 | 6.08 | 154 | 4.21  | 107 |
| 5.0000    | 127 | 4.000  | 102 | 4.00                        | 102 | 2.00              | 51 | 6.50 | 165 | 4.50  | 114 |
| 5.3750    | 137 | 4.000  | 102 | 4.25                        | 108 | 2.15              | 55 | 6.98 | 177 | 4.83  | 123 |

Consult your WBA Representative with your special design requirements

Seal material should be sized 25% larger than the joint opening at near neutral but never less than 10% oversized or greater than 35% oversized. Joint Variations: If a joint opening is not uniform, the limits of the joint opening for the specified seal size are as follows:

- Maximum limit for increase in joint opening is 8%
- Maximum limit for decrease in joint opening is 13%



**Physical Properties:**

**Adhesive** - Wabo®Evazote Bonder is a 100% solids, two component moisture insensitive modified epoxy adhesive which meets ASTM C-881 Type I and II Grade 2 Class B&C. NOTE: Ambient temperatures as low as 20F, Wabo®Evazote Cold Cure Bonder is available and meets ASTM C881, Type II Grade 2 Class A

| PHYSICAL PROPERTIES    | PART A       | PART B      | MIXED         |
|------------------------|--------------|-------------|---------------|
| Color                  | White        | Carmel      | Beige         |
| Shelf Life             | 2 yrs        | 2 yrs       | N/A           |
| Mixing Ratio (vol:vol) | 3 parts      | 1 part      | 3:1           |
| Specific Gravity       | 1.47         | 1.15        | N/A           |
| Density                | 12.2 lbs/gal | 9.6 lbs/gal | N/A           |
| Viscosity              | 22,000 cps   | 33,000 cps  | 26,000 cps    |
| Pot Life               | N/A          | N/A         | 32-36 minutes |
| Initial Set (@77F)     | N/A          | N/A         | 1.5-2 hours   |
| Initial Cure (@77F)    | N/A          | N/A         | 8-12 hours    |
| Full Cure (@77F)       | N/A          | N/A         | 7 days        |

| PHYSICAL PROPERTIES  | ASTM TEST METHOD | REQUIREMENTS      |
|----------------------|------------------|-------------------|
| Compressive Strength | D 695            | 7000 psi (48 MPa) |
| Tensile Strength     | D 638            | 3500 psi (24 MPa) |
| Elongation at Break  | D 638            | 3% - 5%           |
| Shore D Hardness     | D 2250           | 75                |
| Water Absorption     | D 570            | 0.25%             |
| Bond Strength        | C 882            | 430 psi (3 MPa)   |

**Seal Profile** - Wabo®Evazote UV profile is a joint seal that consists of an impermeable closed cell, crosslinked ethylene vinyl acetate, low density polyethylene copolymer nitrogen blown resilient and non-extrudable foam material with a UV stabilizer.

| PHYSICAL PROPERTIES      | ASTM TEST METHOD        | REQUIREMENTS       |
|--------------------------|-------------------------|--------------------|
| Elongation at Break      | D 3575                  | 255% +/-25%        |
| Tensile Strength         | D 3575                  | 115 psi +/-21      |
| Compression Recovery     | AASHTO T42 <sup>1</sup> | 87% +/-3%          |
| Compression Set          | D 3575 <sup>2</sup>     | 10%                |
|                          | D 3575 <sup>3</sup>     | 9%                 |
| Weathering/Deterioration | AASHTO T42              | No deterioration   |
| Tear Resistance          | D 624                   | 15 lbs/in +/-20%   |
| Density                  | D 3575                  | 2.7 - 3.2          |
| Water Absorption         | D 3575                  | 0.02 lbs/ft3       |
| Specimen Extrusion       | D 3575 <sup>4</sup>     | <0.25" (free side) |

1 - 50% compression for 22 hrs @73°F, 1/2 hr recovery  
 2 - 50% compression for 22 hrs @73°F, 2 hr recovery  
 3 - 50% compression for 22 hrs @73°F, 24 hr recovery  
 4 - 60% compression of original thickness with 3 retained sides



## APPLICATION:

### Installation Summary:

- **Newly placed concrete** - The concrete joint interface must be dry and clean (free of dirt, coatings, rust, greases, oil and other contaminants), sound and durable. New concrete must be cured (minimum of 14 days).
- **Aged Concrete** - The blockout should be of sound concrete. Loose, contaminated, weak, spalled, deteriorated concrete must be removed to sound concrete and repaired prior to placement. Any spalling, voids or structural cracking at the joint interface must be repaired.
- **Steel:** steel substrates should be sound, steel surfaces must be abrasive blasted SP-10 near white, immediately prior to installation.
- Measure and cut to exact length needed for continuous joint, being careful not to pull or stretch the seal.
- Measure the joint opening width. The nominal width of the seal should be 25% larger than the joint opening at mid-temperature range but never less than 16% oversized or greater than 38% oversized.
- Pre-mix components A and B separately. For smaller batches mix 3 parts of component A with 1 part of component B in a clean plastic pail. Mix for approximately 3 minutes or until there is no marbling.
- Apply mixed Wabo®Evezote Bonder by brush, trowel, caulking gun or by hand with rubber gloves. Apply approximately 40 mils of Wabo®Evezote Bonder on each side of the seal and on the concrete substrate. Apply enough material to fill the grooves on each side of the seal.
- The seal should be installed ¼" below the finished surface and should never protrude above the joint edge.
- Clean all excess epoxy from the edges of the joint opening and from the top of the seal as soon as it is pushed into the desired depth. DO NOT allow the epoxy to cure before removing it.
- Allow the Wabo®Evezote Bonder to set approximately 20 minutes (at 77°F) before traffic is allowed onto the joint. Longer cure times are required during cooler temperatures.

### For Best Results:

- Repair any spalls, voids, or structural cracking at the joint interface.
- Do not install if the joint's anticipated movement will exceed the seal's movement range.
- 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 store in high humidity.
- Shelf life of the Wabo®Evezote Bonder is 2 years.
- 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.

### Related Documents:

- Material Safety Data Sheets
- Wabo®Evezote UV Specification
- Wabo®Evezote UV Sales Drawings
- Wabo®Evezote UV Installation Procedure
- Wabo®Crete FlexFoam System Data Sheet

### Options/Equipment:

- Use Wabo®Evezote Cold Weather Bonder for applications between 20°F and 40°F.
- Mixing blades.
- Heating splice iron for Wabo®Evezote UV profile.

## 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

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