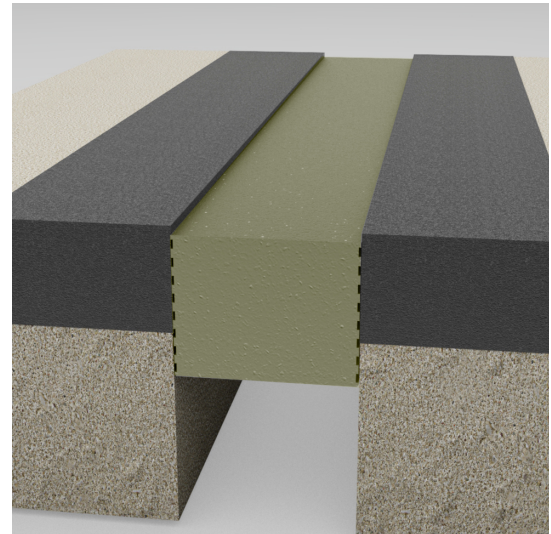


# Wabo®Crete FlexFoam

Armorless closed-cell joint seal and elastomeric concrete expansion joint system

Features	Benefits
<ul style="list-style-type: none"> <li>• Unique Seal Profile Designs</li> </ul>	Configurations assure that profile will not protrude above surface level. Minimizes dirt or debris accumulation. Groves / Ribs on sides of profile assure greater adhesion.
<ul style="list-style-type: none"> <li>• High Performance Joint Header</li> </ul>	Accommodates heavy and repetitive impact loading and prevents further deterioration.
<ul style="list-style-type: none"> <li>• Armorless Technology</li> </ul>	Non-metallic system allows for quick joint repairs short traffic closures.
<ul style="list-style-type: none"> <li>• Versatile Movement Capacity</li> </ul>	Can accommodate varying joint widths.



## DESCRIPTION:

Wabo®Crete FlexFoam armorless expansion joint systems designed with closed-cell foam joint seals installed with epoxy adhesive between an impact absorbing elastomeric concrete header. The high impact absorbing, ambient cured and self-leveling properties of the Wabo®Crete II joint header allows for the joint system to monolithically bond to the deck creating a watertight system. Incorporating an elastomeric concrete joint header minimizing edge spalling while achieving superior bonding capabilities to a variety of substrates.

The system seals are available in a variety of sizes. Wabo®Crete FlexFoam IV series incorporates a neoprene seal designed with ribs on the sides to assure adhesion to the elastomeric concrete header. WaboCrete®FlexFoam EV series incorporates a low density cross-linked ethylene vinyl acetate polyethylene copolymer nitrogen blown joint seal with grooves placed along its edges to ensure and enhance its bond strength.

## RECOMMENDED FOR:

- Horizontal expansion joint applications on bridges and interstate highways.
- New construction or repair and maintenance of existing expansion joints.
- Expansion joints with varying joint widths.

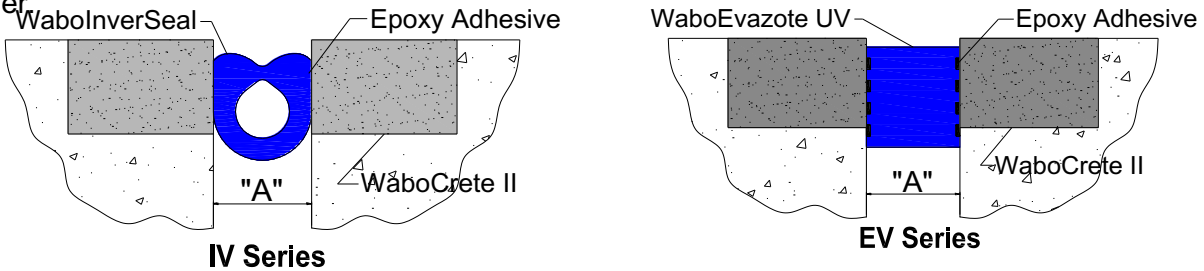
## PACKAGING/COVERAGE:

- See the following datasheets for information on packaging/coverage:
  - WaboEvazote UV
  - WaboInverSeal
  - WaboCrete II

**TECHNICAL DATA:**

**Design Information:**

WaboCrete FlexFoam is comprised of two series; IV Series and EV Series. The IV Series utilizes WaboInverSeal as the expansion joint system. The EV Series utilizes WaboEvazote UV as the expansion joint system. Both series utilizes WaboCrete II elastomeric concrete as the expansion joint header.



**IV Series Movement Table:**

Model Number	Nominal Seal Width		Rec. Install Width		Joint Opening "A"					
					Min.		Max.		Total	
	in	mm	in	mm	in	mm	in	mm	in	mm
IV-100	1.000	25	0.800	20	0.450	11	1.250	32	0.8	20
IV-150	1.500	38	1.200	30	0.675	17	1.875	48	1.2	30
IV-200	2.000	51	1.600	41	0.900	23	2.500	64	1.6	41
IV-250	2.500	64	2.000	51	1.125	29	3.125	79	2.0	51
IV-300	3.000	76	2.400	61	1.350	34	3.750	95	2.4	61
IV-400	4.000	102	3.200	81	1.800	46	5.000	127	3.2	81

Consult your WBA Representative with your special design requirements

**EV Series Movement Table**

Seal Size				Joint Opening @ 68°F(20°C)		Joint Opening "A"					
Width		Height				Min.		Max.		Total	
in	mm	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



## APPLICATION:

### INSTALLATION SUMMARY:

- **Newly placed concrete:** Concrete 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 (min. of 14 days).
- **Aged Concrete:** Blockout should be of sound concrete. Loose, contaminated, weak, spalled, deteriorated and/or delaminated 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. Any patching materials must be approved by manufacturer prior to use.
- 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 properly prepared blockout, in which the primer is still wet. The material will flow and self level.
- For steep sloped conditions add Wabo®Non Flow Additive during the liquid aggregate mixing process.
- 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 dependant.

### WaboCrete II elastomeric concrete

- Concrete substrates must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems.
- WaboBonding agent prevents any inherent moisture 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 the 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 the 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 a clean 5 gallon container. Add Part A and mix both components for 30 seconds or until well blended.

### INSTALLATION SUMMARY:

#### IV series joint profile (Wabo®InverSeal)

- Unroll the seal and let it relax. Measure and cut to length needed for the continuous joint, being careful not to pull and stretch the seal.
- Mix Part A with Part B of the WaboPaste Adhesive. Mix for approximately 3 minutes or until there is no marbling.
- Apply Wabo®Paste Adhesive to the elastomeric concrete joint interfaces of the joint gap opening.
- Use a clean white cotton rag soaked with WaboConditioning Agent to wipe the seal immediately prior to the application of epoxy to the seal.
- Apply Wabo®Paste Adhesive evenly on both sides of the joints' rib area only.
- Position the seal upright on top of the joint opening. Use a blunt rounded to to force the seal down into the opening, to the desired recessed depth.



- Clean all excess WaboPaste Adhesive from the edges of the joint and from the top of the seal.

#### **EV series joint profile (Wabo®Evazote UV)**

- 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 opening at mid temperature range but never less than 16% oversized or greater than 38% oversized.
- Pre-mix WaboBonder 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 WaboBonder by brush, trowel, caulking gun, or by hand with rubber gloves. Apply approximately 40 mils of WaboBonder on each side of the seal and on the concrete substrate. Apply enough WaboBonder to fill the grooves on each side of the seal.
- The seal shall 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 WaboBonder to set approximately 20 minutes (@77F) before traffic is allowed onto the joint. Longer cure times are required during cooler temperatures.

#### **FOR BEST RESULTS:**

- Install when concrete substrate is clean, sound, dry, and cured (14 day minimum).
- Do not install if the joint's anticipated movement will exceed the seal's movement range.
- Protect the work area with appropriate plastic sheeting. It is always a good idea to utilize plastic sheeting on the underside of the joint opening to protect from objects, dripping liquids, or other materials from falling through the opening to lower levels.
- Do not allow any of the components to freeze prior to installation. Store all components out of direct sunlight in a clean, dry location between 50°F (10°C) and 90°F (32°C).
- WaboEvazote Bonder has a shelf life of 2 years. Shelf life of Wabo®Crete II is 18 months. All other chemical components have a shelf life of 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.watsonbowmanacme.com](http://www.watsonbowmanacme.com)) or contact a customer service representative.

#### **RELATED DOCUMENTS:**

- Material Safety Data Sheets
- Wabo®Crete FlexFoam Specification
- Wabo®Crete FlexFoam Sales Drawings
- Wabo®Crete FlexFoam Installation Procedure
- Wabo®Crete II Data Sheet
- Wabo®Evazote UV Data Sheet
- Wabo®InverSeal Data Sheet



#### **OPTIONS/EQUIPMENT:**

- Use a ¾" slow speed, high torque, drill with a egg-beater (or mud beater) style mixing paddle to mix WaboCrete II.
- Minimum ¾" Heavy-duty drill with large jiffy mixer
- Heating splice iron for Wabo®Ezevote UV profile.

#### **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.

### **WaboCrete\_FlexFoam\_0321**