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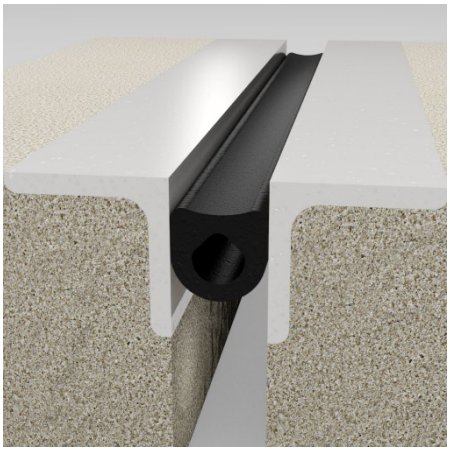
Wabo®InverSeal

Bridge Series
A preformed flexible closed cell neoprene joint seal

Features	Benefits
• Versatile movement	Can accommodate movement of 80% of its nominal width, allowing 55% compression and 25% tension.
• Profile design	Minimizes dirt and debris in joint opening. Ribs on sides of profiles assure greater adhesion.
• Ease of installation	Adapts to varying joint widths and allows for quick joint repairs and short traffic closures.
• Material composition	Manufactured of high-quality neoprene and therefore highly resistant to chemicals, fuels and weather extremes.

DESCRIPTION:

Wabo®InverSeal is extruded as a preformed flexible closed cell neoprene expanded rubber foam seal that is bonded into place with a specially formulated epoxy adhesive. Wabo®InverSeal is capable of accommodating movements and variations in joint widths through the compression and tension of its shape. The seal profile is extruded with serrated side walls to ensure a quality bond area for the application of epoxy adhesive.



RECOMMENDED FOR:

- Parking structures, buildings, plaza decks, bridges and elevated roadways.
- Around columns, stair towers, and elevator shafts
- Horizontal and vertical applications
- Expansion joints with varying joint widths

PACKAGING/COVERAGE:

- Wabo®InverSeal is cut to length and boxed per limitations of required shipping methods.
- Wabo®Paste Adhesive (warm weather)
  - Part A – 32 oz container
  - Part B – 16 oz continer
- Wabo®Paste Adhesive (cold weather)
  - Part A – 32 oz container
  - Part B – 32 oz container
- Wabo®Conditioning Agent
  - 1 qt can
- Wabo®Concrete Cleaner
  - 1 qt can

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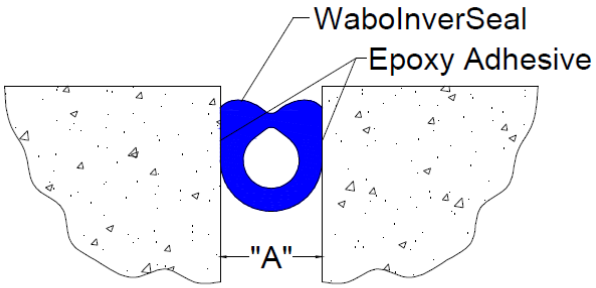
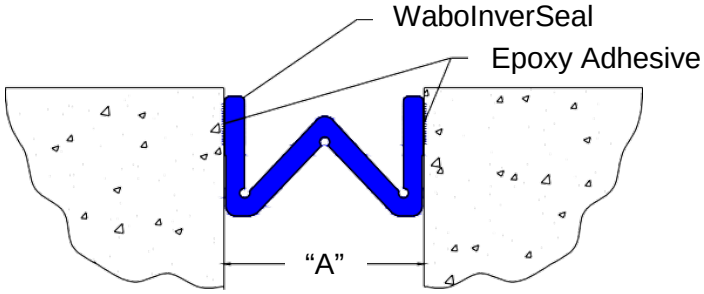
TECHNICAL DATA:

Design Information:

The Wabo®InverSeal IV Series provides 80% extension and 55% compression movement capabilities, while also providing a flat horizontal surface. The Wabo®InverSeal IS series is extruded with a profile to allow for greater movement capability. Both series are extruded from high quality Neoprene for exceptional chemical resistance.



IV Series



IS 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
IS-900	5.000	127	2.000	51	0.500	13	9.000	229	8.5	216

Physical Properties (Closed Cell Neoprene)

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS
Tensile Strength, min	D 412	125 psi (0.86 MPa)
Elongation at Break, min	D 412	200%
Hardness, Shore 00	D 2240	35-65
Compression Deflection	D 1056	5-9 psi (.03-.06 MPa)
Water Absorption	D 1056	5%
Density	D 1056	12 - 25 lbs/ft3
Compression Set	D 1056	15% - 25%

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Physical Properties (Wabo® Paste Adhesive)

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS
Tensile Strength	D 638	4000 psi (27 MPa) min
Axial Compression	D 695	8000 psi (55 MPa) min
Pot Life	D 2471	40 minutes @77°F (25°C)
Flash Point	D 56	> 200°F (93°C)
Initial Cure	N/A	24 hours
Full Cure	N/A	7 days @77°F (25°C)

APPLICATION:

INSTALLATION SUMMARY:

- **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).
- **Aged concrete:** loose, contaminated, weak, spalled, deteriorated and/or delaminated concrete must be removed to sound concrete and repaired prior to placement.
- **Steel:** steel substrates should be sound, steel surfaces must be abrasive blasted SP-10 near white, immediately prior to installation.
- The joint opening must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems. The joint opening should be blown clean using compressed air (>90psi).
- 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 never be less than the joint opening at time of installation. The system can NOT be installed in tension.
- Clean the ribbed area of the seal with WaboConditioning Agent. Use a clean and dry rag to apply the material.
- Clean concrete substrates with WaboConcrete Cleaner. Use a clean and dry rag to wipe the sidewalls of the joint opening.
- Mix WaboPaste Adhesive components A and B in a separate clean and dry container. Apply mixed WaboPaste Adhesive by brush, trowel, or caulking gun. Apply adhesive to coat the sidewall of the seal's ribbed area and the sidewalls of the joint opening.
- The seal should be installed below the finished surface and should never protrude above the joint edge.

FOR BEST RESULTS:

- Install when concrete substrate is clean, sound, dry, and cured (14 day minimum). Follow International Concrete Repair Institute (ICRI) concrete repair and maintenance guidelines.
- Do not install if the joint's anticipated movement will exceed the seal's movement range.
- Minimize splice points by installing seals in longest possible continuous lengths.

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- 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 and 90˚F. Do not store in high humidity.
- Do not install when surface temperature is less than 40˚F.
- Shelf life of system 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) or contact a customer service representative.

RELATED DOCUMENTS:

- Material Safety Data Sheets
- Wabo®InverSeal Specification
- Wabo®InverSeal Installation Procedure
- Wabo®InverSeal Sales Drawings

LIMITED WARRANTY:

WaboInverSeal_Park_1216

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