

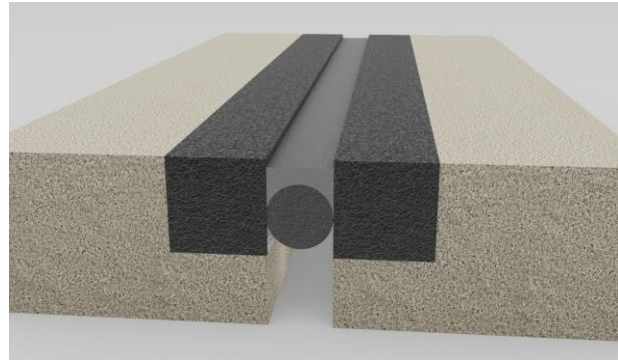
# WaboCrete® SiliconeSeal

High Performance Silicone and Elastomeric Concrete Expansion Joint System  
(Licensed for use under US Patent No. 5,190,395)

Features	Benefits
<ul style="list-style-type: none"> <li>• Repair solution</li> </ul>	System combines a flexible header and rapid curing +100% / -50% movement sealant for maintenance and overlay applications
<ul style="list-style-type: none"> <li>• Unique design</li> </ul>	Provides a watertight system while absorbing impact traffic loads
<ul style="list-style-type: none"> <li>• Primerless</li> </ul>	No priming of the joint interface is required for the Wabo®SiliconeSeal
<ul style="list-style-type: none"> <li>• Rapid installation</li> </ul>	Cold applied, ambient cure system allows quick and easy installation

## DESCRIPTION:

WaboCrete® SiliconeSeal system is a high performance expansion joint utilizing a dynamic two-part sealant between impact absorbing elastomeric concrete headers. The flexible header of WaboCrete® Parking Series coupled with Wabo®SiliconeSeal make it an ideal expansion joint system for the new construction or repair of existing joints. With an extensive history, WaboCrete® Parking Series elastomeric concrete is most widely used in header applications for bridges and parking structures. The polyurethane based header material was developed to minimize edge spalling associated with high impact loads while achieving superior bonding capabilities to a variety of substrates. Product packaging is designed to minimize waste and maximize installation workforce output.



## RECOMMENDED FOR:

- Horizontal expansion joint applications on bridges, highways, parking decks, and stadiums.
- New construction or repair and maintenance of existing expansion joints. Structures where minimum construction closure time is a factor.
- Expansion joint applications with a maximum movement range of +100% / -50% of the joint gap.

## PACKAGING/COVERAGE:

- WaboCrete® II:
  - PTA – ½ gal container
  - PTB – 1 gal container
  - PTC – 60 lbs aggregate
  - Yield = 1030 in<sup>3</sup> = 0.6 ft<sup>3</sup>
- Wabo®SiliconeSeal is a 1:1 mix and available in:
  - Standard 50.72 oz dual cartridge kit (PTA - 25.36 oz; PTB – 25.36 oz)
  - 10 gal unit (PTA - 5 gal; PTB – 5 gal)
  - Yield will vary depending on joint design, tooling, backer rod placement, waste, and experience. See below for typical yield values

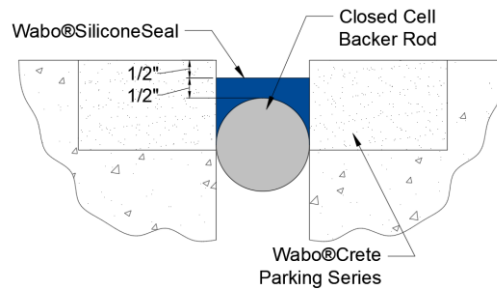
JOINT WIDTH	YIELD/KIT (10 Gal Unit)	YIELD/UNIT (50.72 oz Cartridge)
1" (25mm)	317 LF (96.6m)	12.6 LF (3.8m)
1.5" (38mm)	194 LF (59.1m)	7.8 LF (2.4m)
2" (50mm)	135 LF (41.1m)	5.3 LF (1.6m)
2.5" (64mm)	100 LF (30.5m)	3.9 LF (1.2m)
3" (76mm)	78 LF (23.8m)	3.0 LF (0.9m)

## TECHNICAL DATA:

### Design Information

Wabo®SiliconeSeal is a two-part, self-leveling, low modulus sealant, which can be used for joint openings of 3.25" or less. The maximum movement must not exceed 100% of the joint opening at the time of installation. The minimum movement must not be less than 50% of the joint opening at the time of installation.

Wabo®SiliconeSeal should be applied to a minimum thickness of 1/2", not to exceed 5/8". The system should be installed with a 1/2" recess below the riding surface.



### PHYSICAL PROPERTIES (Wabo®SiliconeSeal):

PHYSICAL PROPERTIES	ASTM TEST METHOD	PART A	PART B
Color		White	Gray
Viscosity		88,000 cps	34,000 cps
Leveling	C 639	self levels	self levels
Extrusion rate ml/min.	C 1183	200-600	200-600

PHYSICAL PROPERTIES	ASTM TEST METHOD	REQUIREMENTS
Leveling	C 639	self levels
Tack free time	C 679	60 minute max.
Joint elongation	D 5329 <sup>(1) (2)</sup>	600% min.
Joint Modulus, 100%	D 5329 <sup>(1) (2)</sup>	15 psi (.10MPa) max
Cure evaluation	D 5893	Pass @ 4 hrs, max
Ultimate Elongation	D 412 Die C <sup>(1)</sup>	1000% min.
Stress @ 150%	D 412 Die C <sup>(1)</sup>	25 psi max. (.17 Mpa)
Shore Hardness, 00	C 661 <sup>(1)</sup>	40 - 80
Specific Gravity	D 792 <sup>(1)</sup>	1.20 - 1.40

(1) Specimens cured at 77 +/-3 F and 50 +/-5% R.H. For 7 days  
(2) Specimens size is 1/2" wide x 1/2" deep x 2" long.

**Elastomeric Concrete Header**

<b>PHYSICAL PROPERTIES (Binder and Aggregate)</b>			
<b>PHYSICAL PROPERTIES</b>	<b>ASTM METHOD</b>	<b>REQUIREMENTS</b>	<b>TEST RESULTS</b>
Compressive Strength	D695 Mod	2200	2723 psi
Resilience at 5% deflection	D695	90 (min.)	96.7%
Adhesion to concrete:	C190		
Dry Bond		400	451.3 psi
Wet Bond		250	353.9 psi
Impact Resistance	Steel ball drop (.375" th. Disc / dry steel plate)		
At -20 deg F (-29C)		no cracks at 5 ft	7.0 ft-lbs
At 32 deg F (0C)		no cracks at 5 ft	10.0 ft-lbs
At 158 deg F (70C)		no cracks at 5 ft	10.0 ft-lbs

**APPLICATION:**

**INSTALLATION SUMMARY:**

- Concrete substrates must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems. Steel substrates must be abrasive blasted to near white metal.
- Apply Wabo® Bonding Agent (primer) to surface of the properly prepared concrete prior to installation of WaboCrete® Parking Series. Do NOT apply Wabo® Bonding Agent to 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 dry prior to placement of WaboCrete® Parking Series.
- Thoroughly pre-mix (approximately 20 seconds) Part B separately before pouring entire contents of Part B into clean 5 gallon container. Add Part A and mix both components for approximately 30 seconds, or until well blended.
- 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 the properly prepared blockout, in which the primer is still wet. The material will flow and self-level. Use a margin trowel to work material and finish surface.
- For sloped conditions, add Wabo® Non-Flow Additive to the liquid-aggregate mixture.
- A non-gassing closed-cell expanded polyethylene foam rod, approximately 25% larger in diameter than the joint gap is positioned in the joint opening such that the top of the rod is 1" (25mm) below the riding surface.



- The Wabo®SiliconeSeal system shall be applied in one direction only to a thickness of 1/2" (12mm) minimum, while not exceeding 5/8" (16mm) and maintaining a 1/2" (12mm) recess from the riding surface.
- Clean all excess material from the edges of the joint opening as soon as possible. DO NOT allow the silicone to cure before removing it.
- Allow the Wabo®SiliconeSeal system to set approximately 30 minutes (at 77°F) before traffic is allowed onto the joint. Longer cure times are required during cooler temperatures.
- WaboCrete® Parking Series components have a shelf life of 18 months and Wabo®SiliconeSeal components have a shelf life of 6 months.
- 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.

#### 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 system's movement range.
- Protect the work area with appropriate plastic sheeting.
- 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). Do NOT install when surface temperature is less than 40°F (4°C).

#### 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.

#### RELATED DOCUMENTS:

- Material Safety Data Sheets
- WaboCrete®SiliconeSeal Specification
- WaboCrete®SiliconeSeal Sales Drawings
- WaboCrete® SiliconeSeal Installation Procedure
- WaboCrete® Paking Series Data Sheet

#### OPTIONS/EQUIPMENT:

- Use a 3/4" slow speed, high torque, drill with a egg-beater (or mud beater) style mixing paddle to mix WaboCrete® Parking Series.
- For Wabo®SiliconeSeal use a dual component application gun suitable to packaging. Contact WBA for recommendations.

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