**PRODUCT INFORMATION**

Manufacturer: **Watson Bowman Acme Corp.**

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Product Name: **Wabo®XPE Joint Seal**

Product

Description: Wabo®XPE is a preformed, impermeable, UV stable foam joint seal that is bonded into place with a two component 100% solids modified epoxy adhesive. It bonds to concrete, steel, elastomeric concrete or viscoelastic concrete joint interfaces.

Intended Use: To seal expansion joints on bridges, parking structures and stadiums.

**A. General**

# The work shall consist of furnishing and installing a preformed UV stable joint seal that consists of an impermeable closed cell, cross-linked, low density polyethylene non-extrudable foam material and bonded in place with a two component 100% solids modified epoxy adhesive in accordance with the details shown on the plans and the requirements of the specifications.

Expansion Joint Manufacturer shall have a minimum ten (10) years of experience specializing in the design and manufacture of bridge, parking structure, and stadium expansion joint systems.

1. **Quality Control**

Expansion Joint Manufacturer shall be ISO-9001 certified, and shall provide written confirmation that a formal Quality Management System has been independently audited and approved to these standards. Alternate Manufacturers will be considered provided they submit written proof that they are ISO 9001 certified prior to the project bid date.

# **C. Product**

Provide a UV stable joint seal that consists of an impermeable closed cell, cross-linked, low density polyethylene non-extrudable foam material. Seal shall not contain EVA (ethylene vinyl acetate), and shall be held in place by a two component 100% solids modified epoxy adhesive.

The design of the seal shall be capable of accommodating movement and variations in joint widths through compression and tension of its shape. Grooves in sidewalls shall be 1/8” (3mm) wide by 1/8” deep (3mm), spaced between ¼” (6mm) to ½” (13mm) apart, and be present along the entire length of the bond surfaces of the seal to ensure an effective and quality surface for adhesion. Provide seal profile that satisfies project requirements including movement and watertightness. Install all components utilizing Manufacturer’s recommended adhesive for complete installation.

# **D. Component and Materials**

The Contractor shall furnish the selected expansion joint Manufacturer’s certificate of compliance that materials proposed will meet the requirements as set forth in these specifications.

1. **Joint Seal Profile**

Wabo®XPE profile is a UV stable joint seal that consists of an impermeable closed cell, crosslinked, low density polyethylene non-extrudable foam material, and shall meet the physical properties listed below:

|  |  |  |
| --- | --- | --- |
| **PHYSICAL PROPERTY** | **ASTM TEST METHOD** | **REQUIRMENTS** |
| Color |  | Gray |
| Tensile Strength | D3575 Suffix T | 110-130 psi |
| Compression Set (22 hrs @ 158oF) | D1056 Suffix B 2 hour recovery | 10-16% |
| Water Absorption (by weight) | D3575 Suffix L | <0.03 lbf/ft2 |
| Elongation @ Break | D3575 | 180-210% |
| Tear Strength | D3575 Suffix G | 14-20 lbf/in. |
| Density | D3575 Suffix W | 1.8-2.2 lbf/ft3 |
| Toxicity | ISO-10993.5 | Pass |

1. **Adhesive**

Joint seal shall be installed utilizing a 100% solids two component moisture insensitive modified epoxy adhesive. Pot life of mixed material shall be a minimum of 30 minutes.

**Cured Adhesive:**

|  |  |  |
| --- | --- | --- |
| **PHYSICAL PROPERTY** | **ASTM TEST METHOD** | **REQUIRMENTS** |
| Tensile Strength, min. | D638 | 3000 psi (20MPa) |
| Compressive Strength, min. | D695 | 7000 psi (48MPa) |
| Hardness, Shore D, min. | D2240 | 75 |
| Water Absorption, by weight | D570 | 0.25% max. |
| Elongation at Break | D638 | 5% max. |
| Bond Strength | C882 | 2000 psi (13MPa) |

### E. Construction Requirements

The Contractor shall submit product information and necessary details after contract award. At the discretion of the Engineer, the Manufacturer may be required to furnish a representative sample of material to be supplied in accordance with the project specifications. Where indicated and noted on the contract plans, install joint seals in a neat and workmanlike manner. All surfaces to receive joint seal shall be free from dirt, water and any other loose foreign debris, which may be detrimental to effective joint sealing.

Measure the joint opening width and deck temperature. Contact Manufacturer with recommended seal size prior to ordering. Seal material should be sized 15% larger than the joint opening at midrange temperature. The seal profile shall be cut to the correct length for installation. Care should be taken to extend the profile to its full length, without exerting any tension or stretching of the seal.

The bond at splice locations is achieved by heat welding. Heat welds, splices, and other directional changes should be cut and made prior to seal installation.

Joint seal and splices shall be installed in strict accordance with the Manufacturer’s written instructions.

### F. Payment

The accepted quantity of system will be paid for at the contract unit price per lineal foot. Measurement shall be taken along the centerline of the joint system between the outer limits indicated on the contract plans.

Payment will be made under:

PAY ITEM PAY UNIT

UV Stable Preformed

Joint Foam Seal Lineal Foot

Payment will be full compensation for all work necessary to complete the items including furnishing and installing the joint sealing system, and any miscellaneous patching.

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**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.

***Contact***

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