

# SPECIFICATION



## **Wabo®PavementSeal – Joint System** Preformed Elastomeric Joint Seal for Bridge, Airfield & Highway Applications

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### **A. General**

The work shall consist of furnishing and installing a preformed pavement seal in accordance with the details shown on the plans and the requirements of the specifications.

### **B. Product**

Provide a multi-cellular elastomeric seal profile that is capable of accommodating movement and variations in joint widths through compression and flexure of its internal web structure. Design web structure with truss like features that exhibit the ability to support traffic where applicable and exerts continuous and uniform pressure against the joint sidewalls effectively providing a watertight seal and application. Provide seal profile that satisfies project requirements including movement and watertightness. Install all components utilizing manufacturer's recommended adhesive for complete installation.

### **C. Component and Materials**

The Contractor shall furnish a manufacturer's certification that the materials proposed have been pre-tested and will meet the requirements as set forth in the specification.

#### **1. Elastomeric Seal**

The seals shall be preformed and manufactured from an extruded neoprene compound exhibiting the physical properties as called for in ASTM D2628 and listed in the table below:

<u>PHYSICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>REQUIREMENT</u>
Tensile Strength	ASTM D412	2000 psi, (13.8 MPa)
Elongation @ break	ASTM D412	250%, min
Hardness, Type A Durometer	ASTM D2240 Modified	55 +/-5 % points
Oven Aging 70 hrs @ 212°F(100°C)	ASTM D573	
Tensile Strength		20% loss max
Elongation		20% loss max
Hardness		0 to +10 points
Oil Swell, 70 hrs @ 212°F(100°C)	ASTM D471	45%
Weight change		
Ozone Resistance, 70 hrs @ 104°F (40°C)20% strain, 300 pphm, in air	ASTM D1149 Modified	No Cracks

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<u>PHYSICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>REQUIREMENT</u>
Low Temp. Stiffening 7 days @ 14°F (-10°C) Hardness Type A Durometer	ASTM D2240	0 to +15 points
Low Temp. Recovery, 72 hrs @ 14°F (-10°C) 50% deflection, min	section 7d, 9.2d	88%
Low Temp. Recovery, 22 hrs @ -20°F (-29°C) 50% deflection, min	section 7d, 9.2d	83%
High Temp. Recovery, 72 hrs @ 212°F (100°C) 50% deflection, min	section 7d, 9.2d	85%
Compression-Deflection 80% of nominal width, min.	section 7d, 9.3d	3.5 lbf/in (613 N/m)

### 2. Lubricant Adhesive

Elastomeric seal shall be installed utilizing a one component blend of neoprene and aromatic solvents for use in lubricating neoprene seals for insertion and bonding to concrete and metal surfaces. Adhesive shall comply with ASTM D2835.

## D. Construction Requirements

The Contractor shall submit product information and necessary details after the award of the contract. 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 pavement seals in a neat and workmanlike manner. All surfaces to receive elastomeric compression seal shall be free from dirt, water and any other loose foreign debris, which may be detrimental to effective joint sealing.

The neoprene seal shall be supplied in the longest continuous length possible. Factory splices will be allowed. Aron Alpha adhesive shall be used to field splice and or miter the seal to accomplish directional changes.

Pavement seal shall be set to the proper width for ambient temperature at the time of installation and shall be installed in strict accordance with the manufacturers written instructions.

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### **E. Payment**

The accepted quantity of preformed pavement seal will be paid for at the contract unit price per lineal foot. Measurement of the preformed pavement seal will be taken horizontally and vertically along the centerline of the joint system between the outer limits indicated on the contract plans. Payment will be made under:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Preformed Pavement Seal	Lineal Foot

Payment will be full compensation for all work necessary to complete the items including furnishing and installing the preformed pavement seal, and any miscellaneous patching required.