

# 1511 - BRIDGE JOINT SYSTEM - PREFORMED PRESSURIZED ELASTOMERIC NEOPRENE

## SECTION 1511

### BRIDGE JOINT SYSTEM - PREFORMED PRESSURIZED ELASTOMERIC NEOPRENE

#### 1511.1 DESCRIPTION

This specification covers material for a bridge expansion joint system using a preformed, pressurized elastomeric neoprene seal as shown in the Contract Documents.

#### 1511.2 REQUIREMENTS

a. Provide a polychloroprene (neoprene) elastomer profile that is preformed by extrusion and vulcanized into its definitive shape, and is supplied in several configurations and dimensions, ranging from 1/4 to 4 inches. See the Contract Documents for profile size requirements. The profile must comply with AASHTO M 297, except it must be capable of being pressurized during installation.

b. Use a double-component, epoxy-based adhesive mixed at the job-site. Apply it to thoroughly cleaned expansion gap walls and outside rough walls of the profile. Provide an epoxy-based adhesive that complies with **TABLE 1511-1**.

<b>TABLE 1511-1: DOUBLE COMPONENT THIXOTROPIC PASTE</b>	
<b>Property</b>	<b>Requirement</b>
Tensile Strength	4140 PSI
Axial Compression	8760 PSI
Solids Hardness	5 MOHS
Pot Life	40 Minutes at 68°F
Flash Point	> 200°F
Curing Time/Strong Bond Within	24 Hours
Complete Cure	7 Days at 68°F
(At higher ambient temperatures, the cure will be accelerated.)	

c. Pressurization is done through a valve with a cap system. The profile is pressurized only during installation and curing time of the adhesive, to verify complete bonding throughout the gap/profile surfaces. Air pressure will bleed itself with time or the air valve can be broken loose any time after 24 hours of installation.

#### 1511.3 TEST METHODS

Test the material in accordance with AASHTO M 297.

#### 1511.4 PREQUALIFICATION

None required.

#### 1511.5 BASIS OF ACCEPTANCE

Receipt and approval of a Type D Certification as specified in **DIVISION 2600**.