

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**.

TABLE 1511-1: DOUBLE COMPONENT THIXOTROPIC PASTE	
Property	Requirement
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**.