

ITEM 567.8202--25 - SILICONE EXPANSION JOINT SYSTEM

1. DESCRIPTION:

- 1.01 The work shall consist of furnishing and placing a rapid curing silicone joint sealing system at the locations indicated on the plans.

2. MATERIALS:

- 2.01 Header material, silicone and backer rod supplied for this work shall be one of the following or approved equal:

- A. XJS System – as furnished by:

SSI Construction & Industrial Materials
4305 Rockford
P.O. Box 50009
Tulsa, OK 74150

- B. Silicone Sealant and Ambient Cured Elastomeric Concrete as furnished by:

Watson Bowman, Acme Corp.
95 Pineview Drive
Amherst, NY 14428

Two (2) copies of the materials details for the header material and silicone shall be supplied to the Engineer at least ten (10) days prior to the intended use of these products.

3. CONSTRUCTION DETAILS:

- 3.01 An experienced technical representative employed by the manufacturer shall be present during all phases of substrate preparation and material installation. No material placement will be permitted unless the technical representative is at the placement site. The representative shall:

- A. Advise both the Engineer and the Contractor regarding proposed installation procedures to assure the header material and silicone are installed correctly.
- B. After installation is completed, certify to the Engineer in writing that the system was installed in accordance with the manufacturer's requirements.

- 3.02 Unless the manufacturer's literature require more thorough cleaning, the following surface cleanliness requirement shall apply:

- A. All concrete surfaces to come in contact with the header material shall be abrasive blast cleaned with oil-free air of all laitance, oil, grease, or any other material which may affect the bond between the header material and the concrete.

- 3.03 Immediately prior to the material installation all receiving surfaces shall be vacuumed clean or air-blown clean with oil-free compressed air. No loose material of any nature shall be permitted on any receiving surface.

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3. CONSTRUCTION DETAILS:

3.04 After the silicone has been installed and cured, a watertightness integrity test shall be performed. The watertightness test shall be performed in accordance with the requirements of Subsection 567-3.01

3.05 Quality Control:

A. **Sealant Thickness:** The sealant thickness placed shall be checked, prior to curing, at a minimum of three locations across a 12 foot length of joint to assure proper thickness per the manufacturer's recommendations.

B. All work shall proceed in a workmanlike manner and shall be subject to the inspection of the Engineer, who shall be given all facilities required for a thorough inspection of the joints.

C. The manufacturer shall warrant the materials used as evidenced by the Letter of Certification.

The manufacturer and the Contractor shall be responsible for the workmanship and performance of the installed joints.

D. The Contractor shall be required to acquire a Performance Bond insuring all materials, workmanship, and the performance of the specified product and the suppliers/installers for a two year period. This Performance Bond shall be effective immediately after the acceptance of the Joint System as specified in the Method of Measurement and shall extend for a two year period from the acceptance date.

4. METHOD OF MEASUREMENT:

4.01 Measurement will be made as the number of linear feet of joint completely installed, measured horizontally and vertically along the centerline of joint system between the outer limits as indicated on the Contract Plans. Measurements will be taken only after the completion of the watertightness test meeting all of the requirements and conditions of Subsection 567-3.01H.

5. BASIS OF PAYMENT:

5.01 The unit price bid per linear foot shall include the cost of all labor, materials and equipment necessary to complete the work. The costs of removing concrete for the joint header shall be paid under separate items.

5.02 No payment will be made for any material installed as replacement material for that removed, unless the Engineer certifies that the reason for removal was beyond the Contractor's control, or the plans specifically require the removal.