

**ITEM 08567.509801 M - COMPRESSION SEAL REPLACEMENT WITH SILICONE
EXPANSION JOINT MATERIAL**

DESCRIPTION:

The work shall consist of removing an existing compression seal and placing a rapid curing silicone expansion joint material at the locations indicated on the plans.

MATERIALS:

Silicone joint sealant supplied for this work shall be a liquid sealant appearing on the Department's Approved List.

Two copies of the materials details shall be supplied to the Engineer at least ten days prior to the intended use of the product.

Backer rod shall be closed cell polyethylene foam. Backer rod diameter shall be a minimum of 25% larger than the joint width. It shall support the sealant at its proper depth, prevent the sealant from leaking around and underneath it, and allow the sealant to deform freely when the joint expands and contracts

CONSTRUCTION DETAILS:

Removal of the existing compression seal shall be accomplished in a manner so as to not damage the joint components to remain in place. Any damage to the existing joint shall be the responsibility of the contractor and shall be repaired to the satisfaction of the Engineer at no cost to the State.

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

1. Advise both the Engineer and the Contractor regarding proposed installation procedures to assure the silicone is installed correctly.
2. After installation is completed, certify to the Engineer in writing that the silicone was installed in accordance with the manufacturer's requirements.

Unless the manufacturer's literature requires more thorough cleaning, the following minimum surface cleanliness requirement shall apply:

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

Immediately prior to the silicone 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.

After the silicone has been installed and cured, a water tightness integrity test shall be performed. The

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watertightness test shall be performed in accordance with the requirements of Subsection 567-3.01.

METHOD OF MEASUREMENT:

This work will be measured as the number of linear meters of joint in which the compression seal has been removed and silicone expansion joint material completely installed. The joints will be 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 water tightness test meeting all of the requirements and conditions of Subsection 567-3.01H.

BASIS OF PAYMENT:

The unit price bid shall include the cost of all labor, materials and equipment necessary to complete the work.