

1 **(September 8, 2020)**

2 **Placing Expansion Joint Sealant**

3 The Contractor shall have the services of a qualified sealant manufacturer's
4 technical representative physically present at the job site to assist in assuring
5 the proper installation of the rapid cure silicone sealant, provide technical
6 assistance for the use of the joint sealant, train the Contractor's personnel
7 installing the joint sealant, and to observe and inspect the installation of at
8 least the first complete joint.

9
10 The joint sealant shall not be placed against concrete until at least seven days
11 after concrete placement. The joint sealant shall not be placed against
12 polyester concrete or elastomeric concrete until a time period recommended
13 by the sealant manufacturer.

14
15 The Contractor shall clean the bridge expansion joints of all forms, dirt, form
16 oil, grease, and other deleterious material. The Contractor shall clean and
17 prepare the entire joint surface receiving the joint sealant in accordance with
18 the manufacturer's joint preparation procedure, and as recommended by the
19 sealant manufacturer's technical representative, including two stage abrasive
20 blasting surface preparation and compressed air cleaning. All steel surfaces to
21 be in contact with the joint sealant shall be cleaned to an SSPC-SP10
22 condition. The joint receiving the sealant shall be sound, clean, dry, and frost
23 free.

24
25 After the cleaned and prepared joint has received the Engineer's acceptance
26 for joint dimensions, alignment, and preparation, the Contractor shall apply the
27 primer, as recommended by the sealant manufacturer, to all surfaces to be in
28 contact with the joint sealant. The primer shall dry and cure for the time period
29 recommended by the sealant manufacturer for the surface type.

30
31 After the primer is cured, the Contractor shall place the backer rod, and place
32 the rapid cure silicone sealant in accordance with the joint installation
33 procedure.

34
35 If the joint width at the time of installation is less than 1-inch or greater than
36 three inches, the Contractor shall not proceed with the expansion joint
37 modification until the installation procedure is revised as recommended by the
38 sealant manufacturer's technical representative.

39
40 After installing the rapid cure silicone sealant, the Contractor shall flood the
41 joint area with water. If leakage is detected, the bridge expansion joint system
42 shall be repaired by the Contractor, as recommended by the sealant
43 manufacturer.