

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.

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10 Prior to scarifying the concrete deck for the modified concrete overlay, the  
11 Contractor shall remove all expansion joint materials and debris from the  
12 existing expansion joints, and shall dispose of these materials and debris as  
13 specified in Section 2-02.3.

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15 Prior to placing the modified concrete overlay, the Contractor shall install a  
16 temporary form as shown in the Plans to fill the expansion joint gap. The  
17 temporary form shall preserve the expansion joint gap during the modified  
18 concrete overlay placement, and shall not damage the joint or the concrete  
19 overlay upon removal. The Contractor shall submit Type 2 Working Drawing  
20 consisting of the type of temporary form material, and the method of  
21 installation and removal.

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23 The joint sealant shall not be placed against concrete (including concrete  
24 overlay except for polyester concrete overlay) until at least seven days after  
25 concrete placement.

26  
27 After placing the modified concrete overlay and rounding the corner of the  
28 overlay at the joints with a 3/8 inch radius, the Contractor shall clean the bridge  
29 expansion joints of all temporary forms, dirt, form oil, grease, and other  
30 deleterious material. The Contractor shall clean and prepare the entire joint  
31 surface receiving the joint sealant in accordance with the manufacturer's joint  
32 preparation procedure, and as recommended by the sealant manufacturer's  
33 technical representative, including two stage abrasive blasting surface  
34 preparation and compressed air cleaning. All steel surfaces to be in contact  
35 with the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint  
36 receiving the sealant shall be sound, clean, dry, and frost free.

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38 After the cleaned and prepared joint has received the Engineer's acceptance  
39 for joint dimensions, alignment, and preparation, the Contractor shall apply the  
40 primer, as recommended by the sealant manufacturer, to all surfaces to be in  
41 contact with the joint sealant. The primer shall dry and cure for the time period  
42 recommended by the sealant manufacturer for the surface type.

43  
44 After the primer is cured, the Contractor shall place the backer rod, and place  
45 the rapid cure silicone sealant in accordance with the joint installation  
46 procedure.

47  
48 If the joint width at the time of installation is less than 1-inch or greater than  
49 three inches, the Contractor shall not proceed with the expansion joint  
50 modification until the installation procedure is revised as recommended by the  
51 sealant manufacturer's technical representative and as approved by the  
52 Engineer.

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