

1 Make the following Section a part of the Standard Specifications:

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3 **"SECTION 681 – CRACK REPAIR BY EPOXY INJECTION**

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5 **681.01 Description.** This section covers the repair of cracks in concrete
6 by pressure-injecting epoxy into cracks that intersect at least one accessible
7 surface of the concrete or masonry member. It does not cover the repair of
8 delaminations where the intersection of the cracked concrete with the surface of
9 the concrete member is not accessible nor can be made accessible.

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11 **681.02 Materials.**

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13 **(A) Surface Seal.** Use the materials to seal the crack faces that have
14 the strength and adhesion to contain the injection adhesive in the crack
15 during the injection process and while the injection adhesive cures, and
16 surface sealer shall be removed such that it does not leave a residue or
17 damage the surfaces.

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19
20 **(B) Injection Adhesives**

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22 **(1)** Injection adhesives for cracks that can be sealed on all faces
23 – Use an adhesive that conforms to the requirements of ASTM C
24 881/C 881M, Type IV, Grade 1, and any additional requirements
25 defined in the Project Specifications.

26
27 **(2)** Injection adhesives for cracks that cannot be sealed of all
28 faces – If all faces of the crack cannot be reached to apply a
29 surface seal, use an injection adhesive that conforms to the
30 requirements of ASTM C 881/C 881M, Type IV, Grades 1, 2, or 3,
31 and has a viscosity that will allow it to achieve and maintain the
32 penetration requirements specified in ACI 503.7.

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35 **681.03 Construction.** All work shall be performed in accordance with ACI
36 503.7.

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38 **681.04 Measurement.** The Engineer will measure the Crack Repair by
39 Epoxy Injection per linear foot of completed and accepted length.

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41 **681.05 Payment.** The Engineer will pay for the accepted quantities of
42 Crack Repair by Epoxy Injection at the contract unit price per linear foot.

43
44 The Engineer will pay for the following pay item when included in the
45 proposal schedule:

46 47 Pay Item	48 49 Pay Unit
50 Crack Repair by Epoxy Injection	51 Linear Feet"

