

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

Division X: Materials

Title: Concrete Curing

Station:
Offset:
Cure Type:
Method of curing:
Cure Class:
Structure Number or Item Description:

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Construction Bulletin 11-07
1.		Certificate of Analysis is submitted for the liquid-membrane forming compound.  Standard Specifications 1006-6.01 (C) Page 1180 Standard Specifications 106.05 (A) Page 89 Certificates of Materials Info: <a href="https://azdot.gov/business/engineering-and-construction/materials/materials-quality-assurance">https://azdot.gov/business/engineering-and-construction/materials/materials-quality-assurance</a>	Standard Specifications 2021 1006-6.01(C) Standard Specifications 2021 106.05 (A)
2.		Curing compounds not previously approved for use on a current or past ADOT project shall be tested for pre-approval by the Structural Materials Testing Section prior to the submittal of the Certificate of Analysis.  Standard Specifications 1006-6.01 (C) Page 1180 Standard Specifications 106.05 (A) Page 89	Standard Specifications 2021 1006-6.01(C) Standard Specifications 2021 106.05 (A)
3.		For approval <b>Type 2</b> (white pigmented) curing compounds, shall be effective for a maximum of six months from the production date.  Standard Specifications 1006-6.01 (C) Page 1181	Standard Specifications 2021 1006-6.01 (C)
4.		For approval <b>Type 1-D</b> (clear or translucent with fugitive dye) curing compounds, the pre-approval shall be effective for a maximum of twelve months from the production date.  Standard Specifications 1006-6.01 (C) Page 1181	Standard Specifications 2021 1006-6.01 (C)

Inspector Quantlist Report 20220525

5.		<p><b>Type “2”</b> compound with either a Class A or Class B vehicle shall be used for concrete pavement, bridge decks, and approach slabs. Type 1-D compound with either a Class A or Class B vehicle shall be used for other concrete items.</p> <p>Standard Specifications 1006-6.01 (C) Page 1182</p>	Standard Specifications 2021 1006-6.01 (C)
6.		<p><b>For Concrete Curbs, Gutters, Sidewalks, And Driveways:</b> The curing compound shall be applied at the rate of not less than 1 gallon per 150 square feet of surface area, and in such manner as to entirely cover and seal all exposed surfaces of concrete with a uniform film.</p> <p>Standard Specifications 908-3 Page 1053</p>	Standard Specifications 2021 908-3
7.		<p>Surfaces requiring a <b>Class II finish</b> shall not be cured by the Liquid-Membrane Forming Compound Method until after the finishing operations are completed.</p> <p>Standard Specifications 1006-6.01 (A) Page 1180</p>	Standard Specifications 2021 1006-6.01 (A)
8.		<p>Curing shall be continued for a period of at least <b>seven days</b> after placing if either Type II Portland cement or Portland pozzolan cement has been used.</p> <p>Standard Specifications 1006-6.01 (A) Page 1180</p>	Standard Specifications 2021 1006-6.01 (A)
9.		<p>Curing continued for a period of at least <b>three days</b> if Type III Portland cement has been used.</p> <p>Standard Specifications 1006-6.01 (A) Page 1180</p>	Standard Specifications 2021 1006-6.01 (A)
10.		<p><b>Water Curing Method:</b> All surfaces not covered by reasonably waterproof forms shall be kept damp by applying water with a nozzle that so atomizes the flow of the water that a fog mist and not a spray is formed until the surface of the concrete is covered with a curing medium or sprinkling of the surface is permitted.</p> <p>Standard Specifications 1006-6.01 (B) Page 1180</p>	Standard Specifications 2021 1006-6.01 (B)
11.		<p><b>Water Curing Method:</b> If a curing medium is used, the concrete shall be kept continuously wet by sprinkling with water for the entire curing period. Burlap, rugs, carpets, or earth or sand blankets may be used as a curing medium to retain the moisture during the curing period.</p> <p>Standard Specifications 1006-6.01 (B) Page 1180</p>	Standard Specifications 2021 1006-6.01 (B)
12.		<p><b>Water Curing Method:</b> Application of the curing medium shall not begin until such time that placement can be made without marring the surfaces of the concrete.</p> <p>Standard Specifications 1006-6.01 (B) Page 1180</p>	Standard Specifications 2021 1006-6.01 (B)
13.		<p><b>Forms in Place Method:</b> Formed surfaces of concrete may be cured by retaining the forms in place. The forms shall remain in place for the entire curing period.</p> <p>Standard Specifications 1006-6.01 (D) Page 1182</p>	Standard Specifications 2021 1006-6.01 (D)
14.		<p><b>Forms in Place Method:</b> All joints in the forms and the joints between the end of forms and concrete shall be kept moisture-tight during the curing period.</p> <p>Standard Specifications 1006-6.01 (D) Page 1182</p>	Standard Specifications 2021 1006-6.01 (D)

Inspector Quantlist Report 20220525

15.		<p><b>Curing Bridge Decks, Approach Slabs, and Anchor Slabs:</b> Water curing shall be applied not later than four hours after the completion of the surface finishing operations.</p> <p>Standard Specifications 1006-6.01 (E) Page 1183</p>	Standard Specifications 2021 1006-6.01 (E)
16.		<p><b>Curing Bridge Decks, Approach Slabs, and Anchor Slabs:</b> The top surface of bridge decks, approach slabs, and anchor slabs shall be cured by the liquid-membrane forming compound method and by the water curing method. The curing compound shall be applied progressively, immediately following the surface finishing operation.</p> <p>Standard Specifications 1006-6.01 (E) Page 1183</p>	Standard Specifications 2021 1006-6.01 (E)
17.		<p><b>Curing Bridge Decks, Approach Slabs, and Anchor Slabs:</b> The top surface of bridge decks, approach slabs, and anchor slabs that will be covered with a special riding surface or waterproofing membrane shall be cured by the water curing method only.</p> <p>Standard Specifications 1006-6.01 (E) Page 1183</p>	Standard Specifications 2021 1006-6.01 (E)
18.		<p>No traffic, hauling, storing of material or other work shall be allowed on any concrete surface during the required curing periods.</p> <p>Standard Specifications 1006-6.01 (C) Page 1180</p>	Standard Specifications 2021 1006-6.01 (A)
19.		<p><b>Shotcrete Curing:</b> Surfaces shall be kept continuously moist for at least seven days, beginning immediately after finishing, by means of either a water spray or fog system capable of being applied continuously or by liquid membrane- forming compound or by polyethylene sheeting conforming to the requirements specified in ASTM C 171.</p> <p>Standard Specifications 912-3.09 Page 1067</p>	Standard Specifications 2021 912-3.09
20.		<p><b>Shotcrete Curing:</b> If polyethylene sheeting is used, it shall be white opaque and adjoining sheets shall overlap at least 12 inches and the laps secured to provide an airtight and windproof joint.</p> <p>Standard Specifications 912-3.09 Page 1067</p>	Standard Specifications 2021 912-3.09
21.		<p><b>Shotcrete Curing:</b> If liquid membrane-forming compound is used it shall be Type I conforming to the requirements of ASTM C 309 and the application rate shall be one gallon per 100 square feet.</p> <p>Standard Specifications 912-3.09 Page 1067</p>	Standard Specifications 2021 912-3.09
22.		<p>Was a Concrete Class "S" or "B" Quantlist completed?</p> <p><a href="https://azdot.gov/node/5338">https://azdot.gov/node/5338</a></p>	Construction Bulletin 07-01
23.		<p>Quantlist Minimum Frequency is being followed, Once a week.</p>	Construction Bulletin 07-01