

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

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

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

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

**Division X: Materials**

**Title: Concrete Curing**

Station:
Offset:
Cure Type:
Method of curing:
Cure Class:
Product:

Attribute Numbers	Weight	Narratives	References
0.	Minor	All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Recommended
1.	Minor	Certificate of Compliance is submitted for the liquid-membrane forming compound.	Materials Practice and Procedure Directives 3a 1.2 Standard Specifications 1006-2.05 Standard Specifications 106.05 (A)
2.	Major	No traffic, hauling, storing of material or other work shall be allowed on any concrete surface during the required curing periods.	Standard Specifications 1006-6.01 (A)
3.	Minor	If curing compound is tagged with a green sticker, the tag shows the project number, laboratory number, lot number, individual approving material, and date of approval. The project shall contact the laboratory for verification of the various information, items and test results.	Materials Policy and Procedure Directive 3a 2.1
4.	Minor	If curing compound arrives on the project not preapproved, it shall be mixed and immediately sampled (approximately 1/2 gallon) and sent to the Structural Materials Testing Lab for testing. The project number, manufacturers name, type of curing compound, and lot number shall be recorded on the sample ticket.	Materials Policy and Procedure Directive 3a 2.2
5.	Major	For pre-approved Type 2 (white pigmented) curing compounds, the pre-approval shall be effective for a maximum of six months from the production date. (3a 1.3); For pre-approved Type 1-D (clear or translucent with fugitive dye) curing compounds, the pre-approval shall be effective for a maximum of twelve months from the production date. (3a 1.4).	Materials Practice and Procedure Directives 3a

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6.	Major	Liquid membrane forming compound shall conform to the requirements of AASHTO M 148. Type 2 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.	Standard Specifications 1006-2.05
7.	Major	Liquid-membrane forming compound shall be applied at a rate of minimum one gallon per 150 square feet for Curbs, Gutters, Sidewalks and Driveways and at a rate of 100 square feet for all other cast in place structures. The curing compound shall form a continuous unbroken surface. If not, the area shall be given a new application of compound at a rate sufficient to assure uniform coverage.	Standard Specifications 908-3 Standard Specifications 1006-6.01 (C)
8.	Minor	Surfaces requiring a Class II finish shall not be cured by the Liquid-Membrane Forming Compound Method until after the finishing operations are completed.	Standard Specifications 1006-6.01 (A)
9.	Minor	Curing shall be continued for a period of at least seven days after placing if either Type II Portland cement or Portland pozzolan cement has been used, or for at least three days if Type III Portland cement has been used.	Standard Specifications 1006-6.01 (A)
10.	Minor	When using water curing method, if a curing medium (burlap, rugs, carpets, or earth or sand blankets) is not used, all surfaces not covered by waterproof forms shall be kept damp by the application of the water with a nozzle that atomizes the flow of the water to a fog mist (not a spray) until the concrete is set.	Standard Specifications 1006-6.01 (B)
11.	Minor	When using water curing method, if a curing medium (burlap, rugs, carpets, or earth or sand blankets) is used to retain the moisture during the curing period, the concrete shall be kept continuously wet by sprinkling with water for the entire curing period. Application of the curing medium shall not begin until such time that placement can be made without marring the surfaces of the concrete.	Standard Specifications 1006-6.01 (B)
12.	Major	When using "forms in place method", the forms shall remain in place for the entire curing period.	Standard Specifications 1006-6.01 (D)
13.	Major	When using "form in place" method, all joints in the forms and the joints between the end of forms and concrete shall be kept moisture-tight during the curing period.	Standard Specifications 1006-6.01(D)
14.	Major	The top surface of bridge decks, approach slabs, and anchor slabs that will not be covered by special riding surface 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.	Standard Specifications 1006-6.01 (E)
15.	Major	The top surface of bridge decks, approach slabs, and anchor slabs that will be covered by special riding surface shall be cured by the water curing method only immediately following surface finishing operation.	Standard Specifications 1006-6.01 (E)
16.	Major	Shotcrete 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.	Standard Specifications 912-3.09
17.	Major	Shotcrete Curing: 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.	Standard Specifications 912-3.09

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18.	Major	Shotcrete Curing: 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.	Standard Specifications 912-3.09
19.	Minor	Quantlist Minimum Frequency is being followed, Once a week.	Construction Bulletin 07-01