Bureau of Materials and Physical Research
Illinois Modified AASHTO T 155-13
Effective Date: January 1, 2007
Revised Date: December 5, 2014

Standard Method of Test
for
Water Retention by Liquid Membrane-Forming Curing Compounds for Concrete

Modifications apply only when testing material according to Article 1022.01 of the Standard Specifications for Road and Bridge Construction (January 1, 2012).

AASHTO Section[1]	***Illinois Modification***
2.2	Replace D 1644 as follows: ASTM D 2369 Test Method for Volatile Content of Coatings
4.2	Revise as follows: *Molds*—Molds shall be standard pie tins and shall be the shape of the frustum of a right cone, 5-3/8 in. (135 mm) in diameter at the top, 4 in. (100 mm) in diameter at the bottom, and 15/16 in. (24 mm) in depth, or any size and shape found necessary or desirable.
4.5	Revise as follows: *Wood Float*—The wood float, with hardened epoxy coating, shall have minimum approximate dimensions of 1-1/2 × 11 × 3/4 in. thick (38 × 280 × 20 mm thick).
4.11	Add as follows: *Spatula* – A rubber bladed spatula with a long handle for stirring the emulsion.
5.3	Delete this section and Note 3.
8.1	Delete the last sentence and Note 6.
9.2	Delete and replace with the following: Place a layer of mortar in a mold in an amount sufficient to slightly overfill the mold. Using a sawing motion and keeping the face of the wood float in contact with the mortar and edges of the mold, strike off the specimen level with the top of the mold creating a uniformly dense surface free of voids and cracks. Perform final finishing with the minimum manipulation necessary to produce a smooth, flat surface level with the edges of the mold.
9.3	Delete the following sentence: Use dummy specimens to fill any empty spaces in the cabinet.
10.2	Delete this section and Note 9.
11.1.2	Revise as follows: Calculate the mass of the curing compound to be applied (MA) to the nearest 0.1 g based on the specified application rate, total top surface area of the specimen, and the density of the curing compound determined in accordance with ASTM D 1475. The specified application rate is gal/200 ft^2 (0.2 L/m^2). The method of application shall be by spray gun with the nozzle held 5 to 6 in. (125 to 150 mm) above the test specimen.

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11.1.3	Replace the first sentence as follows: Immediately after stirring the emulsion for 17 seconds with the spatula, weigh the specimen to the 0.1 g (M_1), then uniformly apply the curing compound at the specified rate of application.
12.1	Replace ASTM D 1644 with ASTM D 2369 and delete Note 13.