FLORIDA DEPARTMENT OF TRANSPORTATION
State Materials Office
5007 NE 39th Avenue
Gainesville, Florida 32609

December 12, 2010

Florida Method of Test
for
Length Change of Hydraulic Cement Mortars Exposed to a sulfate Solution

Designation: FM 3-C 1012

FM 3-C 1012 is identical to ASTM C1012/C1012M except for the following provisions:

1. Significance and Use

    a. Delete first sentence of 3.2 and change to:
    The standard exposure solution used in this test method, unless otherwise directed, contains 704 moles of Na_2SO_4 per m^3 [100 g/L].

2. Reagent and Materials

    a. Delete 1st sentence of 5.4 and change to:
    Sulfate Solution—Each liter of solution shall contain 100.0 g of Na_2SO_4 dissolved in 900 mL of water, and shall be diluted with additional distilled or deionized water to obtain 1.0 L of solution. Mix the solution on the day before use, cover, and store at 23.0 °C [73.5 °F].

    b. Delete the 2nd sentence.

3. Procedure

    c. Change sentence 6 in 9.2 to read:

    Verify the prediction, and at that time observe and record comparator readings and place all the bars partially submerged with the bottom 2 in. under the surface in the sulfate solution (Note 3).