

702-R-679 STRUCTURAL CONCRETE

(Adopted 07-19-18)

The Standard Specifications are revised as follows:

SECTION 702, BEGIN LINE 124, DELETE AND INSERT AS FOLLOWS

Class C concrete shall contain either a water-reducing admixture or *both* a water-reducing *admixture and a* retarding admixture. The types used shall not be changed during any individual contiguous pour. The types of admixtures to be used ~~will~~shall be selected based on the expected concrete or air temperature. When either temperature is expected to be 65°F or above, *both* a water-reducing *admixture and a* retarding admixture shall be used. A water-reducing admixture shall be used when both temperatures are expected to be below 65°F unless retardation is required due to the structure design or the proposed pour sequence such as the requirements for floor slab pours set out in 704.04. *If class C concrete contains ground granulated blast furnace slag, the producer may propose an alternate temperature threshold for including a retarding admixture.* Air-entraining cements will not be allowed in class C concrete.

SECTION 702, BEGIN LINE 243, DELETE AND INSERT AS FOLLOWS:

Concrete that is not within the specified slump limits at time of placement shall not be used. Except as required in 702.05 for class C concrete, ~~a water reducing admixture, chemical admixtures type A, type B, or a water reducing and retarding admixture, type D, type F, and type G, may be used in the concrete. Chemical admixtures type B, type C, and type E will be allowed only with prior written permission. Chemical admixtures type F and type G shall not be used.~~

SECTION 702, BEGIN LINE 525, DELETE AND INSERT AS FOLLOWS:

702.12 Consistency

Slump will be measured in accordance with 505 and shall be no less than 1 in. and no more than 46 in. except for concrete placed in foundation seals.

SECTION 702, BEGIN LINE 1174, DELETE AND INSERT AS FOLLOWS:

Unless otherwise specified, all other concrete shall be cured continuously 24 h per day for at least 96 h commencing immediately after the surface is able to support the protective covering without deformation. ~~If portland pozzolan cement, type IP or IP-A, or fly ash is used, the concrete shall be cured for at least 120 h.~~ In addition to the required hours, curing shall continue until the flexural strength stated in 702.13(h) and 702.24 has been attained.

Membrane forming curing compound may be used in lieu of protective covering curing methods. Where it has been determined that a surface treatment is to be used, the membrane forming curing compound shall not be used. *Membrane forming curing compound shall not be used on bridge decks nor on reinforced concrete slab bridges.*