

Hot Weather Concreting

Reported by ACI Committee 305

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Concrete mixed, transported, and placed under conditions of high ambient temperature, low humidity, solar radiation, or wind, requires an understanding of the effects these environmental factors have on concrete properties and construction operations. Measures can be taken to eliminate or minimize undesirable effects of these environmental factors. Experience in hot weather with the types of construction involved will reduce the potential for serious problems.

This committee report defines hot weather, lists possible potential problems, and presents practices intended to minimize them. Among these practices are such important measures as selecting materials and proportions, precooling ingredients, special batching, length of haul, consideration of concrete temperature as placed, facilities for handling concrete at the site, and during the early curing period, placing, and curing techniques, and appropriate testing and inspecting procedures in hot weather conditions. A selected bibliography is included.

These revisions involve an editorial revision of the document. The revisions focus in particular on the effects of hot weather on concrete properties, and the use of midrange water-reducing admixtures and extended air-content admixtures in hot weather.

ACI Committee Reports, Guides, Standard Practices, and Commentaries are intended for guidance in planning, designing, executing, and inspecting construction. This document is intended for the use of individuals who are competent to evaluate the significance and limitations of its content and recommendations and who will accept responsibility for the application of the material it contains. The American Concrete Institute disclaims any and all responsibility for the stated principles. The Institute shall not be liable for any loss or damage arising therefrom.

Reference to this document shall not be made in contract documents. If items found in this document are desired by the Architect/Engineer to be a part of the contract documents, they shall be restated in mandatory language for incorporation by the Architect/Engineer.

Keywords: air entrainment; cooling; curing; evaporation; high temperature; hot weather construction; plastic shrinkage; production methods; retempering; slump tests; water content.

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