305r 10 Guide To Hot Weather Concreting

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Guide to Hot Weather Concreting - American Concrete Institute
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ACI 305R-10 PDF
305R-10: Guide to Hot Weather Concreting describes how “…environmental factors, such as high ambient temperature, low humidity, high wind, or both low humidity and high wind, affect concrete properties and the construction operations of mixing, transporting, and placing of the concrete materials.” Further, 305R-10 provides measures that can be taken to minimize the undesirable effects of these environmental factors and reduce the potential for serious problems.

American Concrete Institute Guide to Hot Weather Concreting
Hot Weather Concreting (ACI 305R-10) Effects on Low Strength •High initial concrete temperatures has significant effect on compressive strength in a negative manner •ASTM C31 requires 60°- 80°F curing temperature up to 48 hours for concrete specified under 6000 psi. Concrete greater than 6000 psi is to be 68° - 78°F up to the first 48 hours.

Concrete Placement in Hot Weather Planning, Placing, and ...
American Concrete Institute (ACI) definition of hot weather condition, as stated in the ACI-305R-10, refers to job-site conditions that accelerate the rate of moisture loss or rate of cement hydration of freshly mixed concrete, including: a) Ambient temperature of 27 °C (80°F) or higher; and b) Evaporation rate that exceeds 1 kg/m2/h

5 Tips for Hot Weather Concreting | FPrimeC Solutions Inc.
10 15 20 25 30 35 5 0 10 15 20 25 30 WIND SPEED (km/h) = 40 35 40 = CONCRETE TEMPERATURE (°C) 70 RELATIVE HUMIDITY (%) = 100 90 80 60 50 40 30 20 10 Figure 1: Effect of concrete and air temperatures, relative humidity and wind velocity on the rate of evaporation of surface moisture from concrete (after ACI 3052) INITIAL SETTING TIME (hours ...

HOT-WEATHER Concreting DATA
305R-1 Hot Weather Concreting ACI 305R-99 Concrete mixed, transported, and placed under conditions of high ambient temperature, low humidity, solar radiation, or wind, requires an under-standing of the effects these environmental factors have on concrete prop-erties and construction operations. Measures can be taken to eliminate or

305R-99 Hot Weather Concreting
" Hot Weather Concreting," Chapter 13 of Design and Control of Concrete Mixtures, EB001.15, Portland Cement Association. ACI 305R-10, Guide to Hot Weather Concreting Hot Weather Concreting . About

Hot Weather Concrete Construction

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ACI 305R Guide to Hot Weather Concreting active, Most Current Buy Now. Details. History. References Related Products. Organization: ACI: Publication Date: 1 October 2010: Status: active: Page Count: 27: scope: This guide identifies problems associated with hot weather concreting and describes practices that alleviate these potential adverse ...

ACI 305R - Guide to Hot Weather Concreting | Engineering360
305r 10 Guide To Hot Weather Concreting The rise of the Internet and all technologies related to it have made it a lot easier to share various types of information. Unfortunately, sometimes the huge amount of information available online is a curse rather than a blessing: many websites just do not seem to bother with proper organization of content they offer.

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This nomograph from ACI 305R-10, “Guide to Hot Weather Concreting,” uses air temperature, concrete temperature, relative humidity, and wind speed to predict the likelihood of plastic shrinkage cracks.

Hot Weather Concreting in Cold Weather| Concrete ...
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By using the nomograph, Figure 4.2, in ACI 305R-10, “Guide to Hot Weather Concreting”, you can calculate the rate of evaporation for the microenvironment of your placement. Keep in mind that wind velocity, relative humidity and ambient temperature can be different than forecasted based on the type and/or location of the slab.

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