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Reported by ACI Committee 305 ACI 305R-10 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. This guide provides measures that can be taken to

Guide to Hot Weather Concreting - American Concrete Institute

The American Concrete Institute. Founded in 1904 and headquartered in Farmington Hills, Michigan, USA, the American Concrete Institute is a leading authority and resource worldwide for the development, dissemination, and adoption of its consensus-based standards, technical resources, educational programs, and proven expertise for individuals and

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organizations involved in concrete design ...

305R-10 Guide to Hot Weather Concreting

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305R-10 Guide to Hot Weather Concreting Hot weather, as defined by ACI R, is any combination of the

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following conditions that tends to impair the quality of freshly mixed or hardened concrete by This is the key reason why hot weather concreting needs special care.

ACI 305-10 PDF - Download PDF

Temperature, volume changes, and cracking problems associated with mass concrete are treated more thoroughly in ACI 207.1R, 207.2R, and 224R.

Document History ACI 305R

ACI 305R - Guide to Hot Weather Concreting | Engineering360

(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

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Planning, Placing, and ...

305R-2 ACI COMMITTEE REPORT 3.4—
Delivery 3.5— Slump adjustment 3.6—
Properties of concrete mixtures 3.7—
Retempering Chapter 4— Placing and
curing, p. 305R-13 4.1— General 4.2—
Preparations for placing and curing 4.3—
Placement and finishing 4.4— Curing
and protection Chapter 5— Testing and
inspection, p. 305R-16 5.1— Testing

305R-99 Hot Weather Concreting

The American Concrete Institute (ACI) specifies in ACI 305R-10 Guide to Hot Weather Concreting recommended maximum concrete temperatures both at delivery and during curing. These recommendations are often mirrored as requirements in job specifications.

Hot Weather Concreting | Civil + Structural Engineer magazine

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

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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

ACI 305-10 PDF Posted on June 23, 2020 by admin ACI R Concrete mixed, transported, and placed under conditions of high ambient temperature, low humidity, solar radiation, or wind, requires an under-. The technical committees responsible for ACI committee reports and of Institute standards does not constitute governmental endorsement of ACI or the.

ACI 305-10 PDF - portorford.info

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

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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.

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Master Builders Solutions

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.

HOT WEATHER CONCRETE - Cemstone

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305R-10 Guide to Hot Weather Concreting, 2010 - MADCAD.com

3/4/2015 4 ACI DEFINITION OF COLD WEATHER Cold Weather - A period when, for more than 3 consecutive days, the following conditions exist: •The Average daily air temperature is less than 40 °F (5 °C), and •The air temperature is not greater than 50 °F (10 °C) for more than one-half of any 24 hour period.

COLD WEATHER CONCRETE PRACTICES - CRMCA

ACI 305R-10 Guide to Hot Weather Concreting CH3 Potential problems and practices CH4 Effects of hot weather on concrete properties CH5 Production and Delivery CH6 Placing and curing CH7 Testing and inspection Appendix - Methods for cooling fresh concrete

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