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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

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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

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305R-10 Guide to Hot Weather

Concreting Hot weather, as defined by ACI R, is any combination of the following conditions that tends to impair the quality of freshly mixed or hardened concrete by This is the key reason why

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hot weather concreting needs special care.

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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

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(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

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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 ...

305R-2 ACI COMMITTEE REPORT 3.4—
Delivery 3.5— Slump adjustment 3.6—
Properties of concrete mixtures 3.7—

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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)

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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

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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

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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

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committees responsible for ACI committee reports and of Institute standards does not constitute governmental endorsement of ACI or the.

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definition of hot weather condition, as

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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 |

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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

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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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3/4/2015 4 ACI DEFINITION OF COLD WEATHER Cold Weather - A period when,

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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

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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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