ACI 308.1-11

Specification for Curing Concrete

An ACI Standard

Reported by ACI Committee 308



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Specification for Curing Concrete

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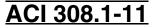
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Note: ACI Committee 308 recognizes former committee Chair Steven H. Gebler for his significant contribution to this document prior to his passing in June 2006.

This specification is a reference specification that the Architect/Engineer can make applicable to any construction project by citing it in the Project Specification. The Architect/Engineer uses and supplements the provisions of this reference specification as needed by designating or specifying individual project requirements to which provisions of this specification apply.

This document provides requirements for alternative methods for curing concrete. These alternative methods are not necessarily equal in effectiveness, cost, effect on project schedule, or impact on other aspects of the project. To use this specification, the Architect/Engineer must not only include this document by reference in the Project Specification, but must also identify the concrete elements that are to be cured, and must choose the method to cure those elements. This specification has default settings that may or may not be applicable to a specific project. The Architect/Engineer is to use the Checklists included in this specification to customize the specification to a specific project. Checklists are provided in this document to guide the Architect/Engineer through these selection processes, and the selections must be included in the Project Specification. Alternatively, the Architect/Engineer may allow the Contractor the option of using one or more of a number of permissible curing methods, subject to review and approval. Further, the Architect/Engineer must determine whether deliberate curing efforts are to be terminated after a predetermined time has elapsed, or only after specified concrete properties have developed. When deliberate efforts to cure the concrete are to be terminated only when specified concrete properties have developed, the Architect/Engineer must also select the test method used to measure those properties.

This specification addresses curing methods applied after placement of concrete and does not apply to internal curing (use of saturated lightweight aggregate or other materials to provide supplemental water) or to accelerated curing (heat curing).

The materials, processes, quality control measures, and inspections described in this document should be tested, monitored, or performed as applicable only by individuals holding the appropriate ACI certifications or equivalent.

Keywords: cold-weather concreting; concrete construction; curing; curing films and sheets; hot-weather concreting; insulating concrete; insulation; membrane curing compounds; moist curing; moisture retention; sealers; water curing; water retention.

FOREWORD TO CHECKLISTS

F1. This foreword is included for explanatory purposes only; it does not form a part of ACI Specification 308.1.

F2. ACI Specification 308.1 may be referenced by the Specifier in the Project Specification for any building project, together with supplementary requirements for the specific project. Responsibilities for project participants must be defined in the Project Specification. ACI Specification 308.1 cannot and does not address responsibilities for any project participant other than the Contractor.

F3. Checklists do not form a part of ACI Specification 308.1. Checklists assist the Specifier in selecting and specifying project requirements in the Project Specification.

F4. The Mandatory Requirements Checklist indicates work requirements regarding specific qualities, procedures, materials, and performance criteria that are not defined in ACI Specification 308.1. The Specifier must include these requirements in the Project Specification.

F5. The Optional Requirements Checklist identifies Specifier choices and alternatives. The Checklist identifies the Sections, Parts, and Articles of the ACI Reference Specification 308.1 and the action required or available to the Specifier. The Specifier should review each of the items in the Checklist and make adjustments to the needs of a particular project by including those selected alternatives as mandatory requirements in the Project Specification.

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