



Designation: C 1074 – 98

Standard Practice for Estimating Concrete Strength by the Maturity Method¹

This standard is issued under the fixed designation C 1074; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript symbol (n) indicates an editorial change since the last revision or approval.

1. Scope

1.1 This practice provides a procedure for estimating concrete strength by means of the maturity method. The maturity index is expressed either in terms of the temperature-time factor or in terms of the equivalent age at a specified temperature.

1.2 This practice requires establishing the strength-maturity relationship of the concrete mixture in the laboratory and recording the temperature history of the concrete for which strength is to be estimated.

1.3 The values stated in SI units are to be regarded as the standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards²

- C 39 Test Method for Compressive Strength of Cylindrical Concrete Specimens³
- C 109/C 109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)⁴
- C 192/C 192M Practice for Making and Curing Concrete Test Specimens in the Laboratory⁵
- C 403/C 403M Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance⁶
- C 511 Specification for Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes⁷
- C 684 Test Method for Making, Accelerated Curing, and

Testing of Concrete Compression Test Specimens⁸

- C 803/C 803M Test Method for Penetration Resistance of Hardened Concrete⁹
- C 873 Test Method for Compressive Strength of Concrete Cylinders Cast in Place in Cylindrical Molds¹⁰
- C 900 Test Method for Pullout Strength of Hardened Concrete¹¹
- C 918 Test Method for Measuring Early-Age Compressive Strength and Projecting Later-Age Strength¹²
- C 1150 Test Method for the Break-Off Number of Concrete¹³

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *datum temperature*—the temperature that is subtracted from the measured concrete temperature for calculating the temperature-time factor according to Eq 1.

3.1.2 *equivalent age*—the number of days or hours at a specified temperature required to produce a maturity equal to the maturity achieved by a curing period at temperatures different from the specified temperature.

3.1.3 *maturity*—the extent of the development of a property of a cementitious mixture.

3.1.3.1 *Discussion*—While the term is used usually to describe the extent of relative strength development, it can also be applied to the evolution of other properties that are dependent on the chemical reactions that occur in a cementitious mixture. At any age, maturity is dependent on the curing history.

3.1.4 *maturity function*—a mathematical expression that uses the measured temperature history of a cementitious mixture during the curing period to calculate an index that is indicative of the maturity at the end of that period. Refer to Appendix X1 for additional discussion of this term.

3.1.5 *maturity index*—an indicator of maturity that is calculated from the temperature history of the cementitious mixture by using a maturity function.

3.1.5.1 *Discussion*—The computed index is indicative of maturity provided there has been a sufficient supply of water for hydration or pozzolanic reaction of the cementitious

¹ This practice is under the jurisdiction of ASTM Committee C-01 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C01.04 on Nondestructive and In-Place Testing.

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² Annual Book of ASTM Standards, Vol. 04.02.

³ Annual Book of ASTM Standards, Vol. 04.02.

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Specifications for Structural Concrete, ACI 301-05, with Selected ACI References American Concrete Institute, 2005

An Evaluation of the Maturity Method (ASTM C 1074) for Use in Mass Concrete Toy Spotswood Poole, Patrick J. Harrington, 1996 **Handbook for Concrete and Cement** United States. Army. Corps of Engineers, 1949 *Concrete Construction Engineering Handbook* Edward G. Nawy, 2008-06-24 The Concrete Construction Engineering Handbook Second Edition provides in depth coverage of concrete construction engineering and technology It features state of the art discussions on what design engineers and constructors need to know about concrete focusing on The latest advances in engineered concrete materials Reinforced concrete construction Specialized construction techniques Design recommendations for high performance With the newly revised edition of this essential handbook designers constructors educators and field personnel will learn how to produce the best and most durably engineered constructed facilities

Guidelines for Early-opening-to-traffic Portland Cement Concrete for Pavement Rehabilitation Thomas John Van Dam, National Cooperative Highway Research Program, 2005 Durability and Sustainability of Concrete Nausherwan Hasan, 2020-09-09 This book provides practicing engineers with a step by step approach for making durable concrete with optimum use of the local materials available within the various regions of the United States It further includes actual concrete mixture proportions for high performance concrete for strength and durability under various aggressive environments based on the author s experience in the field and support this with illustrative case studies Examples for concrete mixture proportions based on the current industry practice and standards are highlighted to assist engineers in meeting the intended performance requirements for specific environment conditions for durable concrete Covering an important topic for the construction and building materials industries this book delivers the most up to date industry practices and advances in concrete construction from the perspective of a practicing engineer with over 40 year experience Maximizes practicing engineers understanding of best design and construction practices in fabricating delivery and installation of concrete consistent with current knowledge on concrete durability Discusses quality control and testing requirements during design and construction including mixing production and placement of concrete and tolerances for slump and air content Emphasizes real world examples of optimal concrete mixtures suitable for selected service conditions and applications based on prior successful records of projects within the US Addresses the role of innovative admixtures in concrete placement in cold weather conditions below 32F and meeting the strength and durability requirements Serves as a valuable resource for students in graduate programs Accelerated Rigid Paving Techniques , 1994 This report represents nearly 6 years of collaboration among Federal Highway Administration FHWA State and American Concrete Pavement Association ACPA engineers on the subject of Fastrack Concrete Paving As an outgrowth of activities begun in 1986 in Storm Lake Iowa a Technical Working Group TWG assembled under the auspices of the FHWA s Special Project 201 Since the first

meeting in Alexandria Virginia in 1988 the TWG has cooperated to construct pilot projects test concrete material with the FHWA s mobile laboratory sponsor workshops and conferences nationwide simulate exercises on urban project designs complete ACPA s Technical Bulletin on Fastrack and support follow on research This report formally completes activities carried out under SP 201 It presents key information on opening to traffic criteria and pavement slab temperature management It includes a summary of key projects built around the country in the last 6 years It also includes a copy of ACPA s new bulletin and closes with reprints of several technical reports that may be of interest to the reader

Development of Maturity Protocol for Construction of NJDOT Concrete Structures Farhad Ansari,1999 In this study the concrete maturity method ASTM 1074 was evaluated as a technique to estimate in place strength in a footing column and pier cap on Route 21 in Newark New Jersey The results of the testing painted a three dimensional picture of strength development in the structure and provided insights to thermal differentials or gradients that cause stresses in early age concrete

The Effect of Curing Temperatures on the Development of Mechanical Properties of Fresh and Hardened High-strength Silica Fume Mixtures Roberto Caldas Pinto,1997 Modern Design Technologies and Experiment for Advanced Manufacture and Industry Chien Hung Liu,2015-05-28 Selected paper from the 3rd International Conference on Engineering and Technology Innovation held in Kenting Pingtung Taiwan R O C October 31 November 4 2014

A Predictive Approach for Long-term Performance of Recycled Materials Using Accelerated Aging: Appendices ,2001 Use of recycled materials in a proposed highway application frequently requires the assessment of physical and environmental performance Future behavior is often difficult to predict As an alternative to field demonstrations there is a need to develop strategies to predict long term physical and environmental performance Accelerated aging is one means of exploring the long term physical and environmental performance of recycled materials in a highway Coal fly ash CFA use in portland cement concrete PCC was selected as a model system to develop an accelerated aging approach Three types of accelerated aging were chosen for this project Arrhenius aging AA cyclic loading CL and freeze thaw exposure FT This approach incorporated in an experimental design allowed a systematic exploration of the separate effects and combined interactions of both developmental and degradative accelerated aging variables A slab from U S Route 20 in northwest Iowa was used as both the basis for the concrete mixes and as a field verification site

Guide for Curing of Portland Cement Concrete Pavements Toy S. Poole,2006 **Transportation Research Record** ,1995 For more than 50 years the Transportation Research Record has been internationally recognized as one of the preeminent peer reviewed journals for transportation research papers from authors in the United States and from around the world One of the most cited transportation journals the TRR offers unparalleled depth and breadth in the coverage of transportation topics from both academic and practitioner perspectives All modes of passenger and freight transportation are addressed in papers covering a wide array of disciplines including policy planning administration economics and financing operations construction design

maintenance safety and more Publisher s website **Quality of Concrete Structures and Recent Advances in Concrete Materials and Testing** Paulo Roberto Lago Helene,2005 **Manual of Test Procedures for Materials** Illinois. Division of Highways. Bureau of Materials and Physical Research,2007 **Minnesota Rules** ,2013 **ACI Manual of Concrete Practice** ,2005 *ACI Materials Journal* ,2004 **Airfield and Highway Pavements** Imad L. Al-Qadi,2006 This collection contains 87 papers presented at the 2006 Airfield and Highway Pavements Specialty Conference held in Atlanta Georgia April 30 May 3 2006 Accelerated Aging of Concrete Roberto Caldas Pinto,2002 This report provides a review of the literature on accelerated aging of concrete It was undertaken as part of a research project on predicting the long term environmental performance of portland cement concrete PCC pavements containing coal fly ash An accelerated aging regime involving temperature cyclic loading and freeze thaw cycles was employed in this project to simulate natural long term aging processes This literature review describes the general concept of aging of materials and defines accelerated aging It describes accelerated aging procedures and applications of accelerated aging and discusses thermal aging the most common accelerated aging technique Accelerated aging techniques and applications for several types of materials i e metals polymers asphalts wood and masonry are described followed by a review of accelerated aging procedures and applications for PCC

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