

Astm C 1074

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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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

ASTM C1074 - 19 Standard Practice for Estimating Concrete ...

ASTM C1074 June 1, 2019 Standard Practice for Estimating Concrete Strength by the Maturity Method 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...

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ASTM C1074 - 19 Standard Practice for Estimating Concrete ...

C 1074 - 04 concrete will experience while hardening (5, 7). For Type I cement without admixtures and a curing temperature range from 0 to 40 ° C, the recommended datum temperature is 0 ° C (5). For other conditions and when maximum accuracy of strength estimation is desired, the appropriate datum temperature can be determined experimentally according to the procedures in Annex A1.

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The current ASTM C 1074 is to be used in conjunction with this procedure.) 1. SCOPE 1.1 This provides a procedure for estimating in-place 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 ...

Estimating the In-Place Concrete Strength by a Maturity Method

C1074 - 11 Standard Practice for Estimating Concrete Strength by the Maturity Method , in-place strength, maturity method, nondestructive testing, temperature, Cold-weather concrete, Concrete, Concrete strength, Field testing--concrete/aggregates, Flexural testing--concrete, Formwork removal, In-place strength, Maturity method, Nondestructive evaluation (NDE)--concrete/masonry, Post-tensioning of tendons, Removal of forms, Reshoring, Sensors, Strength--cement/concrete mixtures/applications ...

ASTM C1074 - 11 Standard Practice for Estimating Concrete ...

C1074 - 04 Standard Practice for Estimating Concrete Strength by the Maturity Method , in-place strength, maturity method, nondestructive testing, temperature, ... ASTM Standards. C31/C31M Practice for Making and Curing Concrete Test Specimens in the Field.

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Maturity Concrete maturity testing is a solution for the construction industry to help assess the compressive strength of the concrete as described in ASTM C1074. The testing can aid in decisions regarding concrete curing conditions and mix design. more » H-2683.3F

Concrete Maturity Testing, Maturity Meters, ASTM C1074

Guidance Documents **COMMAND** Center is in full compliance with ASTM C1074, the current ASTM International Standard for monitoring in-place concrete maturity. In addition to fully complying with ASTM C1074, **COMMAND** Center purchases always include a free licensed copy of ASTM C1074 because we know how important it is to perform the test correctly.

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ASTM C1074. 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.

ASTM C1074 - 17 Standard Practice for Estimating Concrete ...

ASTM C1074, 2019 Edition, June 1, 2019 - Standard Practice for Estimating Concrete Strength by the Maturity Method. 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.

ASTM C1074 : Standard Practice for Estimating Concrete ...

ASTM C1074 - 19: Title: Standard Practice for Estimating Concrete Strength by the Maturity Method: Status: Current: Publication Date: 01 June 2019: Normative References(Required to achieve compliance to this standard) No other standards are normatively referenced: Informative References(Provided for Information) No other standards are informatively referenced

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ASTM C1074-19. Standard Practice for Estimating Concrete Strength by the Maturity Method. 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 ...

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intelliRock Maturity Loggers analyze the time and temperature profile of in – place concrete to calculate its strength in real – time with the push of a button. The maturity loggers are based on ASTM C 1074 "Standard Practice for Estimating Concrete Strength by the Maturity Method." Product Variations: Maturity Temperature 1 Min/180 Day_4 ft WireMaturity Temperature 1 Min/180 Day_8 ft WireMaturity Temperature 1 Min/180 Day_30 ft WireMaturity Temperature 1 Min/180 Day_50 ft WireMaturity ...

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ASTM C1074-19 Standard Practice for Estimating Concrete Strength by the Maturity Method. standard by ASTM International, 06/01/2019. View all product details

Written by international experts in the field, this new edition provides the most comprehensive, up-to-date information available on nondestructive testing (NDT) methods used to evaluate concrete structures. Sixteen chapters give you a comprehensive understanding of the tools and techniques used to estimate the in-place strength of concrete and permeation properties that relate to potential durability, and describe methods used to assess the internal condition of concrete and corrosion activity of steel reinforcement.

ASTM C1074-11, Standard Practice for Estimating Concrete Strength by the Maturity Method, provides instructions for applying the Nurse-Saul and Freiesleben-Hansen Pedersen maturity methods, including ways to obtain the key parameters of datum temperature (T_0) or the Arrhenius activation energy (E_a). Default values are provided along with three alternative computational methods for determining a mixture-specific value of T_0 or E_a from experimental data, as detailed in C1074-11 Annex A1. This paper demonstrates via examples that the accuracy of the resulting strength estimates can vary considerably depending on which of the three alternatives is selected, potentially masking the more intrinsic variability of these parameters as influenced by composition or temperature. One source of this observed variability is the statistical bias known to characterize the "double reciprocal linearization" regression technique, which is utilized in two of the three ASTM methods. While recommending the deletion of these statistically biased estimators, the authors support the more rigorous nonlinear regression method (A1.1.8.1) as well as simpler functional forms; they affirm the reasonableness of the ASTM default values for T_0 and E_a .

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

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the Concrete Construction Engineering Handbook covers the entire range of issues pertaining to the construction

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