

EVALUATION OF MECHANICAL PROPERTIES OF CONCRETE

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Abstract

This paper investigates the impact of pre-washed aggregates, and pozzolanic cement replacements on the limit strengths and elastic properties of concrete during the hardening process. The static and dynamic Young's moduli; and compressive and tensile strengths have been measured during the first 28 days of maturity on different concrete mixes: (a) various fly ash and silica fume replacement ratios; (b) washed and unwashed aggregates with various fly ash replacement ratios. The strength prediction models described in the Eurocode-2 have been fitted to the experimental results. A modification of the Eurocode-2 equations is suggested, incorporating the linear combination of the mix-design variables as model factors. Finally, the proposed model is used to quantify the impact of the mix-design variables on the aforementioned mechanical properties. The results indicate minor influence of Silica Fume and Fly Ash replacements on the 28 days Young's moduli, contrasting with significant negative effects of pre-washed aggregates on the Young's moduli and limit strengths.

Keywords: Filler content, Fly Ash, Silica Fume, Strength, Young's modulus.

1 Introduction

The elastic properties of concrete play a critical role in the design of reinforced concrete structures, and are highly influenced by the concrete composition.

Aggregate coatings (film of fine material adhered to the aggregate surface) can have a different mineralogical composition from the parent rock, depending on the nature of the aggregate (Galloway, 2006). Coatings can be composed of clay, calcium carbonates or silt; which have negative impacts on the hardened concrete mechanical properties by interacting with the cement paste (Quiroga and Fowler, 2004). Washing the aggregates is an effective strategy to eliminate such coatings and may present economic and technical benefits for concrete production (Muñoz et al., 2005). Nevertheless, former studies suggest that the effects of aggregate coatings on the fracture behaviour of concrete are more pronounced on round aggregates than crushed ones, as the aggregate-paste bond strength is more sensible to surface texture than surface coatings (Rocco and Elices, 2009).

Fly Ash (FA), either siliceous (class F) or high-lime (class C), is widely used as cement replacement and reports substantial benefits to the long-term mechanical properties and durability of hardened concrete (Neville and Brooks, 2010). Class F Fly Ash (FFA) increases the compressive (F_{ck}) and tensile strength (F_{ctk}) as well as the Static Elastic Modulus (E_{ck}) at 28 days on High Strength Concrete (HSC) mixes, with cement contents between 400-500kg/m³. Similar effects are expected on normal strength concrete. The optimum FFA replacement ratios are found at 10% (Haque and Kayali, 1998). Whereas, increases on F_{ck} , F_{ctk} are barely found on the long-term (over 90 days) for higher cement replacement ratios (40-50%) (Siddique, 2004).

Silica Fume (SF) is also widely used as cement replacement in concrete, and SF replacement ratios in the range of 10-20% improve the long-term mechanical properties of concrete (Siddique, 2011). Several studies have proved the benefits of SF as cement replacement (SF replacement ratio 10-15%) when used in HSC (cement content 400-500kg/m³), compressive, tensile strengths and

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Non-destructive Testing and Evaluation of Civil Engineering Structures Jean-Paul Balayssac, Vincent Garnier, 2017-11-22
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Technologies for Sustainable Buildings and Infrastructure B. R. Jayalekshmi, K. S. Nanjunda Rao, G. S.

Pavan, 2024-09-19 This book presents select proceedings of the International Conference on Sustainable Infrastructure Innovations Challenges and Opportunities 2023 SIIOC 2023 The topics covered include behavior of masonry and RC buildings under earthquakes performance of concrete bricks and blocks manufactured with non organic industrial wastes bamboo for construction composites for construction and finite element simulations on buildings and special structures The book presents various facets of experiments to characterize the properties of construction materials and intricacies involved in performing finite element simulations to assess the behavior of buildings under seismic and wind loading conditions The book serves as a resource material for budding researchers and industry professionals interested in developing solutions for sustainable building habitats *Reliability, Safety and Hazard Assessment for Risk-Based Technologies* Prabhakar V.

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Mechanical Properties of Cementitious Materials at Microscale Ya Wei, Siming Liang, Weikang Kong, 2022-11-14 This book provides information on characterizing the microstructure and mechanical properties of cementitious materials at microscale Specifically with the intention to provide the methods of preparing the samples for the micro scale mechanical testing to address the techniques for measuring and analyzing the elastic modulus the stiffness and the fracture toughness of cementitious materials at micro scale by instrumented indentation to describe a method for measuring and interpreting creep behavior of cementitious materials at micro scale and to demonstrate the homogenization method for obtaining the mechanical properties of cementitious materials across scales The information in this book is helpful to a wide readership in the field of civil engineering and materials science working with cementitious materials and other composite materials

Contract Report S. Waterways Experiment Station (U.S.), 1976 **Life-Cycle of Structures and Infrastructure Systems** Fabio Biondini, Dan M. Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at

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Application of Waste Materials in Lightweight Aggregates Franus Małgorzata, 2023-11-27 Application of Waste Materials in Lightweight Aggregates presents the current state of knowledge on aggregates production methods their characteristics current standards and legal regulations In addition the book briefly discusses the issue of the presence of different types of waste in the environment including municipal agricultural energy and mining industries their characteristics and uses for the production of lightweight aggregates This book serves as a source of academic information on the course and conditions of using various waste treatment processes for academics engineers professionals and students interested in environmental engineering as well as for companies dealing with recycling and disposal of waste

Advanced Techniques for Testing of Cement-Based Materials Marijana Serdar, Ivan Gabrijel, Dirk Schlicke, Stéphanie Staquet, Miguel Azenha, 2020-02-18 The book examines advanced non standardized techniques that have been developed for determining different properties of cement paste mortar and concrete and provides state of the art information on methods for monitoring hydration induced changes in cement based materials CBMs These methods are often nondestructive and allow quasi continuous monitoring covering the time span from placement of the material to formation of a fully hardened cement composite The book also presents various applications of acoustic emission for characterizing fresh concrete recent developments in ultrasonic methods for characterizing CBMs since placement application of ambient response methods for measuring elastic modulus methods for determining deformational characteristics of CBMs since setting and methods for in situ measurements of stresses in concrete elements during hardening

Bridge Evaluation and Analysis National Research Council (U.S.). Highway Research Board, 1973

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