

Mix Design Of Fiber Reinforced Concrete Frc Using Slag

FIB - International Federation for Structural Concrete

Fibre-reinforced concrete:From design to structural applications FIB - Féd. Int. du Béton,2016 The FRC-2014 Workshop Fibre Reinforced Concrete: from Design to Structural Applications was the first ACI-fib joint technical event. The Workshop, held at Polytechnique Montreal (Canada) on July 24th and 25th 2014, was attended by 116 participants from 25 countries and 4 continents. The first international FRC workshop was held in Bergamo (Italy) in 2004. At that time, the lack of specific building codes and standards was identified as the main inhibitor to the application of this technology in engineering practice. Ten years after Bergamo, many of the objectives identified at that time have been achieved. The use of fibre reinforced concrete (FRC) for designing structural members in bending and shear has recently been addressed in the fib Model Code 2010. Steel fibre reinforced concrete (SFRC) has also been used structurally in several building and bridge projects in Europe and North-America. SFRC has been widely used in segmental tunnel linings all over the world. Members of ACI544 and fib TG-4.1 have been involved in writing code based specifications for the design of FRC structural members. More than fifty papers were presented at the Workshop from which forty-four were selected for this joint ACI/fib publication. The papers are organised in the document under six themes: Design guidelines and specifications, Material properties for design, Behaviour and design of beams and columns, Behaviour and design of slabs and other structures, Behaviour and design of foundations and underground components, and finally, Applications in structure and underground construction projects.

Proposal of a Mix Design Method for Low Cement Fiber Reinforced Concrete Mohd Nabil Eid,2020 Concrete, the second most used material in the world, presents great performance and economic benefits. Yet, it is often characterized by a brittle behaviour, low tensile strength, and toughness. Fibers are usually added to concrete to counteract its brittle behaviour, increasing ductility and toughness, controlling crack propagation and delaying concrete failure. However, their addition significantly worsens the fresh state performance of the material. To improve fresh state of the so-called Fiber Reinforced Concrete (FRC), conventional mix-design methods recommend the use of high paste content, which results in a significant increase of Portland cement (PC) content and raises the carbon footprint of the material. The latter is responsible for 8% of the global annual carbon dioxide (CO₂) anthropogenic emissions. Given the current worldwide concerns on global warming, the construction industry is in a need to lessen the demand, and thus production of PC. Recent studies have been focusing on

the use of advanced mix-design techniques (i.e. particle packing models- PPMs) along with Inert Fillers (IF) as an alternative to reduce PC content in concrete. However, the latter was not applied to conventional FRC. In this work, advanced mix design techniques (i.e. PPMs) are used to overcome the aforementioned issues and mix-proportion eco-efficient FRC with low cement content (

ADVANTAGES AND DISADVANTAGES OF FIBER-REINFORCED CONCRETE. S.R.R. TEJA. PRATHIPATI,2024

Structural Applications of Fiber Reinforced Concrete Nemkumar Banthia,P. Tatnall,1999

Fiber Reinforced Concrete Nemkumar Banthia,Arnon Bentur,Aftab A. Mufti,1998

High Performance Concrete Optimal Composition Design Leonid Dvorkin,Vadim Zhitkovsky,Oleh Bordiuzhenko,Yuri Ribakov,2023-09-01 Concrete and reinforced concrete remain the main building materials for construction of modern fortifications. The book presents experimental and theoretical results allowing production of special high-strength rapid hardening concrete and fiber reinforced concrete. It describes a method for effective proportioning of high-strength fast-setting concrete and fiber reinforced concrete with high dynamic strength as well as selecting proper technological parameters, methodology for design of reinforced concrete structures using such concrete. Particular attention is paid to ensuring the early strengthening of concrete within 24 hours after casting and to constructing structures with limited energy resources at the site.

Fibre-reinforced Concretes for High-performance Structures Andreas Lampropoulos,2024-01-22 Fibre-reinforced Concretes for High-performance Structures presents key information about the development, performance and design of fibre-reinforced concrete, ultra-high-performance fibre-reinforced concrete and geopolymer concrete, and critically analyses their key mechanical properties and durability characteristics.

Mix Development of PLC-based Ultra-high Performance Fibre Reinforced Concrete and Characterization of Key Mechanical Properties and Time-Dependent Behaviour Bingyue Shao,2016 This thesis proposes a new Ultra-high Performance Fibre Reinforced Concrete (UHPFRC) mix design developed and optimized with the aim of lowering environmental and economic cost while achieving better performance. Instead of plain Portland Cement, the proposed mix uses Portland Limestone Cement (PLC) with 6-15 % of limestone, as a means to reduce the gross cement content. The optimized mix design features 10% of silica fume and 30% of ground granulated blast-furnace slag, 2.5% of steel fibres by the total volume, and very low water-to-binder ratio. The proposed mix is validated and characterized through a comprehensive experimental program, which shows that at 56 days the proposed mix can achieve a compressive strength at least 130 MPa, an average peak flexural stress of 27 MPa, and an average peak uni-axial tensile strength of 10 MPa. Tests also show that the proposed mix has satisfactory performance in shrinkage, resistance of chloride ion penetration, and freeze-thaw resistance.

Design of Fiber Reinforced Concrete for Pumping Douglas W. Ounanian,Clyde E. Kesler,1976

Developments in the Formulation and Reinforcement of Concrete Sidney Mindess,2014-01-23 Concrete is the most widely-used construction material in the world. This important book summarises the wealth of recent research on improving qualities such as durability and sustainability as well as the emergence of a new generation of specialist concretes for particular applications.A number of chapters discuss new types of concrete such as autoclaved aerated concrete, high-strength concrete, sprayed concrete, fibre-reinforced concrete, lightweight concrete, self-compacting concrete, foamed and polymer concrete, together with their characteristics and applications. Other chapters review the development of concrete especially suited for particular conditions such as radiation protection, hot weather and underwater conditions, as well as the increasingly important area of recycling.With its distinguished editor and international team of contributors, *Developments in the formulation and reinforcement of concrete* is a standard reference for civil and structural engineers. - Summarises a wealth of recent research on improving qualities such as sustainability and durability - Discusses new concrete types together with their characteristics and applications - Reviews the development of concrete especially suited to particular conditions such as hot weather and under water

Fiber-Reinforced Cements and Concretes Colin D Johnston,2014-04-21 This book summarizes and simplifies the results of a considerable body of research and practical experience with a wide range of fiber-reinforced cementitious composites.

High Performance Fiber Reinforced Cement Composites 6 Gustavo J. Parra-Montesinos,Hans W. Reinhardt,2012-01-28 High Performance Fiber Reinforced Cement Composites (HPFRCC) represent a class of cement composites whose stress-strain response in tension undergoes strain hardening behaviour accompanied by multiple cracking, leading to a high strain prior to failure. The primary objective of this International Workshop was to provide a compendium of up-to-date information on the most recent developments and research advances in the field of High Performance Fiber Reinforced Cement Composites. Approximately 65 contributions from leading world experts are assembled in these proceedings and provide an authoritative perspective on the subject. Special topics include fresh and hardening state properties; self-compacting mixtures; mechanical behavior under compressive, tensile, and shear loading; structural applications; impact, earthquake and fire resistance; durability issues; ultra-high performance fiber reinforced concrete; and textile reinforced concrete. Target readers: graduate students, researchers, fiber producers, design engineers, material scientists.

Development of a Mix Design Adjustment Method for Fiber Reinforced Concrete and Super High-performance Concrete Based on Excess Paste Joe Malloy,2019 The main objective of this study was to develop a mix design adjustment method for Fiber Reinforced Concrete (FRC) that would maintain appropriate workability while improving hardened concrete performance. A literature review was conducted to examine existing methods for adjusting mix designs to account for fiber introduction. It was found that while increasing fine aggregate and cement paste content can make up for lost workability with the addition of fibers, no rational mix design adjustment method is available. Reference mix designs from the Nevada

Department of Transportation and the Nebraska Department of Transportation were used, and this study focused on tailoring the idea of increasing paste and fine aggregate to focus on the parameter of excess paste. Excess paste serves to coat the aggregate particles and is critical for workability. To apply this method of excess paste adjustment, a modified version of ASTM C29 was used to determine the void content of fiber-aggregate skeletons with varying fiber contents. Paste and fine aggregate content were then adjusted to maintain the excess paste quantity between reference mixes and mixes with fiber. A variety of tests including slump, vibrated L-box, compressive strength, splitting tensile strength, flexural strength, drying shrinkage, and restrained shrinkage were conducted to evaluate the overall concrete performance. Results indicated that, for each mix design, adjusting based on excess paste provided a workable FRC with improved hardened performance. Eight slabs were then prepared for a large-scale examination of constructability. Throughout the study of FRC, an alternative concrete to Ultra-High Performance Concrete (UHPC) that would considerably outperform High-Performance Concrete (HPC) was developed. This study delves into the development of a new type of concrete called Super High Performance Concrete (SHPC). SHPC is a high strength, self-consolidating FRC that would significantly cut back on cost and production limitations compared to UHPC as it can be produced with conventional drum-type mixers. Results indicate that SHPC outperforms HPC in matters of workability, compressive strength, flexural strength, and toughness and could potentially be a viable alternative of UHPC for applications such as bridge deck connections and overlays.

Steel Fiber Reinforced Concrete Harvinder Singh, 2016-10-26 This book discusses design aspects of steel fiber-reinforced concrete (SFRC) members, including the behavior of the SFRC and its modeling. It also examines the effect of various parameters governing the response of SFRC members in detail. Unlike other publications available in the form of guidelines, which mainly describe design methods based on experimental results, it describes the basic concepts and principles of designing structural members using SFRC as a structural material, predominantly subjected to flexure and shear. Although applications to special structures, such as bridges, retaining walls, tanks and silos are not specifically covered, the fundamental design concepts remain the same and can easily be extended to these elements. It introduces the principles and related theories for predicting the role of steel fibers in reinforcing concrete members concisely and logically, and presents various material models to predict the response of SFRC members in detail. These are then gradually extended to develop an analytical flexural model for the analysis and design of SFRC members. The lack of such a discussion is a major hindrance to the adoption of SFRC as a structural material in routine design practice. This book helps users appraise the role of fiber as reinforcement in concrete members used alone and/or along with conventional rebars. Applications to singly and doubly reinforced beams and slabs are illustrated with examples, using both SFRC and conventional reinforced concrete as a structural material. The influence of the addition of steel fibers on various mechanical properties of the SFRC members is discussed in detail, which is invaluable in helping designers and engineers create optimum designs. Lastly, it describes the

generally accepted methods for specifying the steel fibers at the site along with the SFRC mixing methods, storage and transport and explains in detail methods to validate the adopted design. This book is useful to practicing engineers, researchers, and students.

Developments in the Formulation and Reinforcement of Concrete Sidney Mindess, 2019-06-14 Developments in the Formulation and Reinforcement of Concrete, Second Edition, presents the latest developments on topics covered in the first edition. In addition, it includes new chapters on supplementary cementitious materials, mass concrete, the sustainability of concrete, service life prediction, limestone cements, the corrosion of steel in concrete, alkali-aggregate reactions, and concrete as a multiscale material. The book's chapters introduce the reader to some of the most important issues facing today's concrete industry. With its distinguished editor and international team of contributors, users will find this to be a must-have reference for civil and structural engineers. Summarizes a wealth of recent research on structural concrete, including material microstructure, concrete types, and variation and construction techniques Emphasizes concrete mixture design and applications in civil and structural engineering Reviews modern concrete materials and novel construction systems, such as the precast industry and structures requiring high-performance concrete

High-performance Hybrid-fibre Concrete Ivan Marković, 2006 In the research project presented in this PhD-thesis, an innovative type of fibre concrete is developed, with improved both the tensile strength and the ductility: the Hybrid-Fibre Concrete (HFC). The expression Hybrid refers to the hybridisation of fibres: short and long steel fibres were combined together in one concrete mixture. This is opposite to conventional steel fibre concretes, which contain only one type of fibre. The basic goal of combining short and long fibres is from one side to improve the tensile strength by the action of short fibres, and from the other side to improve the ductility by the action of long fibres. In this research project, all important aspects needed for the development and application of Hybrid-Fibre Concrete have been considered. In total 15 mixtures, with different types and amounts of steel fibres were developed and tested in the fresh state (workability) as well as in the hardened state (uniaxial tensile tests, flexural tests, pullout tests of single fibres and compressive tests). A new analytical model for bridging of cracks by fibres was developed and successfully implemented for tensile softening response of HFC. At the end, the utilisation of HFC in the engineering practice was discussed, including a case-study on light prestressed long-span beams made of HFC.--BOOK JACKET.

Fibre Reinforced Concrete FIB - International Federation for Structural Concrete, 2022-11-01 Fibre Reinforced Concrete (FRC) is a composite material characterized by an enhanced post-cracking tensile residual strength, due to the capacity of fibres to bridge the crack faces by means of pull-out mechanism. Due to a better knowledge of FRC and the recent developments worldwide of guidelines for structural design, the fib Special Activity Group 5, who prepared the new fib Model Code, decided to introduce some sections on new materials and in particular on FRC structural design. At that

time, working Groups TG 8.3 (“Fibre reinforced concrete”) and TG 8.6 (“Ultra high performance fibre reinforced concrete”) of fib prepared these sections of the new fib Model Code concerning FRC design rules for providing a guidance to engineers to properly and safely design FRC structural elements, both at serviceability and at ultimate limit states, based on the state-of-the-art knowledge. This bulletin was written with the aim to share the main framework used by the two groups to introduce these two sections and to describe the many aspects already known, but not yet introduced in the Model Code. Even though the basic principles introduced in the two sections are mainly obtained from research on steel fibre reinforced concrete, the Model Code is open to every type of fibres, following a performance-based design approach. The bulletin represents a wide effort made by the people of the Task Group 4.1 and 4.2 to trace the knowledge on FRC and aims to be helpful for structural designers when using this new material in the practice.

Fibre Reinforced Cement and Concretes R.N. Swamy,B. Barr,2002-11-01 This volume consists of papers presented at the International Conference on Recent Developments in Fibre Reinforced Cements and Concretes, held at the School of Engineering, University of Wales College of Cardiff, UK, 18-20 September 1989.

Fibre Reinforced Concrete: Improvements and Innovations Pedro Serna,Aitor Llano-Torre,José R. Martí-Vargas,Juan Navarro-Gregori,2020-11-05 This volume highlights the latest advances, innovations, and applications in the field of fibre reinforced concrete (FRC) and discusses a diverse range of topics concerning FRC: rheology and early-age properties, mechanical properties, codes and standards, long-term properties, durability, analytical and numerical models, quality control, structural and Industrial applications, smart FRC’s, nanotechnologies related to FRC, textile reinforced concrete, structural design and UHPFRC. The contributions present improved traditional and new ideas that will open novel research directions and foster multidisciplinary collaboration between different specialists. Although the symposium was postponed, the book gathers peer-reviewed papers selected in 2020 for the RILEM-fib International Symposium on Fibre Reinforced Concrete (BEFIB).

Fibre Reinforced Concrete: Improvements and Innovations II Pedro Serna,Aitor Llano-Torre,José R. Martí-Vargas,Juan Navarro-Gregori,2021-09-04 This volume highlights the latest advances, innovations, and applications in the field of fibre-reinforced concrete (FRC), as presented by scientists and engineers at the RILEM-fib X International Symposium on Fibre Reinforced Concrete (BEFIB), held in Valencia, Spain, on September 20-22, 2021. It discusses a diverse range of topics concerning FRC: technological aspects, nanotechnologies related with FRC, mechanical properties, long-term properties, analytical and numerical models, structural design, codes and standards, quality control, case studies, Textile-Reinforced Concrete, Geopolymers and UHPFRC. After the symposium postponement in 2020, this new volume concludes the publication of the research works and knowledge of FRC in the frame of BEFIB from 2020 to 2021 with the successful celebration of the hybrid symposium BEFIB 2021. The contributions present traditional and new ideas that will open novel research directions

and foster multidisciplinary collaboration between different specialists.

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