

RILEM REPORT 11



Interfacial Transition Zone in Concrete

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Interfacial Transition Zone In Concrete Rilem Reports

Mark Alexander, Sidney Mindess



Interfacial Transition Zone In Concrete Rilem Reports:

Interfacial Transition Zone in Concrete J.C. Maso, 1996-05-23 An important state of the art report prepared by RILEM Technical Committee 108 ICC It has been written by a team of leading international experts from the UK USA Canada Israel Germany Denmark South Africa Italy and France

Interfacial Transition Zone in Concrete J.C. Maso, 2004-03-01 An important new state of the art report prepared by RILEM Technical Committee 108 ICC It has been written by a team of leading international experts from the UK USA Canada Israel Germany Denmark South Africa Italy and France Research studies over recent years in the field of cement science have focused on the behaviour of the interfaces between the components of cement based materials The techniques used in other areas of materials science are being applied to the complex materials found in cements and concretes and this book provides a significant survey of the present state of the art

Interfacial Transition Zone in Concrete J. C. Maso, 1996 **Interfacial Transition Zone in Cementitious Composites** A. Katz, Arnon Bentur, Mark Alexander, G. Arliguie, 2004-03-01 This book addresses the need to resolve the ITZ's influence on engineering and durability characteristics of cementitious composites identifies the systems and properties that are affected by it and quantifies these effects in order to prepare the base for engineering design tools This volume presents the proceedings of the Second International RI Engineering and Transport Properties of the Interfacial Transition Zone in Cementitious Composites International Union of Testing and Research Laboratories for Materials and Structures, 1999

Proceedings of the 17th International Conference on Alkali-Aggregate Reaction in Concrete Leandro F.M. Sanchez, Cassandra Trottier, 2024-05-03 This book gathers the peer reviewed papers presented at the 17th International Conference on Alkali Aggregate Reaction in Concrete ICAAR held in Ottawa Ontario Canada on May 19 24 2024 It highlights the latest advances and innovations in the field of internal swelling reactions particularly alkali aggregate reaction AAR and combined mechanisms such as delayed ettringite formation DEF The conference topics encompass understanding the reaction mechanisms and the affecting factors testing methods and preventative measures diagnosis evaluation and prognosis monitoring and NDT structural effects and modeling at all scales repair and remedial measures and combined mechanisms e.g. DEF The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster new multidisciplinary collaborations

Proceedings fib Symposium in Stuttgart FIB - International Federation for Structural Concrete, 2008-09-01

Calcined Clays for Sustainable Concrete Fernando Martirena, Aurélie Favier, Karen Scrivener, 2017-10-27 This volume focuses on research and practical issues linked to Calcined Clays for Sustainable Concrete The main topics are geology of clays hydration and performance of blended system with calcined clays alkali activated binders applications in concrete and mortar durability of concrete under various aggressive conditions and economic and environmental impacts of the use of calcined clays in cement based materials This book compiles the different contributions of the 2nd International Conference

on Calcined Clays for Sustainable Concrete which took place in La Habana December 5th 7th 2017 The papers update the latest research in their field carried out since the last conference in 2015 Overall it gives a broad view of research on calcined clays and their application in the field of construction which will stimulate further research into calcined clays for sustainable concrete

Numerical Modeling Strategies for Sustainable Concrete Structures Pierre Rossi, Jean-Louis Tailhan, 2022-06-30 This volume highlights the latest advances innovations and applications in the field of sustainable concrete structures as presented by scientists and engineers at the RILEM International Conference on Numerical Modeling Strategies for Sustainable Concrete Structures SSCS held in Marseille France on July 4 6 2022 It demonstrates that numerical methods finite elements finite volumes finite differences are a relevant response to the challenge to optimize the utilization of cement in concrete constructions while checking that these constructions have a lifespan compatible with the stakes of sustainable development They are indeed accurate tools for an optimized design of concrete constructions and allow us to consider all types of complexities for example those linked to rheological physicochemical and mechanical properties of concrete those linked to the geometry of the structures or even to the environmental boundary conditions This optimization must also respect constraints of time money security energy CO2 emissions and more generally life cycle more reliably than the codes and analytical approaches currently used Numerical methods are undoubtedly the best calculation tools at the service of concrete eco construction The contributions present traditional and new ideas that will open novel research directions and foster multidisciplinary collaboration between different specialists

Report 38: Durability of Self-Compacting Concrete - State-of-the-Art Report of RILEM Technical Committee 205-DSC Geert De Schutter, Katrien Audenaert, 2007

Concrete Permeability and Durability Performance Roberto J. Torrent, Rui D. Neves, Kei-ichi Imamoto, 2021-12-22 Durability and service life design of concrete constructions have considerable socio economic and environmental consequences in which the permeability of concrete to aggressive intruders plays a vital role Concrete Permeability and Durability Performance provides deep insight into the permeability of concrete moving from theory to practice and presents over 20 real cases such as Tokyo s Museum of Western Art Port of Miami Tunnel and Hong Kong Zhuhai Macao sea link including field tests in the Antarctic and Atacama Desert It stresses the importance of site testing for a realistic durability assessment and details the Torrent Method for non destructive measurement of air permeability It also delivers answers for some vexing questions Should the coefficient of permeability be expressed in m2 or m s How to get a mean pore radius of concrete from gas permeability tests Why should permeability preferably be measured on site How can service life of reinforced concrete structures be predicted by site testing of gas permeability and cover thickness Practitioners will find stimulating examples on how to predict the coming service life of new structures and the remaining life of existing structures based on site testing of air permeability and cover thickness Researchers will value theoretical principles testing methods as well as how test results reflect the influence of concrete mix composition and processing

Application of Super Absorbent Polymers (SAP) in Concrete Construction Viktor Mechtcherine, Hans-Wolf Reinhardt, 2012-01-03 This is the state of the art report prepared by the RILEM TC Application of Super Absorbent Polymers SAP in concrete construction It gives a comprehensive overview of the properties of SAP specific water absorption and desorption behaviour of SAP in fresh and hardening concrete effects of the SAP addition on rheological properties of fresh concrete changes of cement paste microstructure and mechanical properties of concrete Furthermore the key advantages of using SAP are described in detail the ability of this material to act as an internal curing agent to mitigate autogenous shrinkage of high performance concrete the possibility to use SAP as an alternative to air entrainment agents in order to increase the frost resistance of concrete and finally the benefit of steering the rheology of fresh cement based materials The final chapter describes the first existing and numerous prospective applications for this new concrete additive

Aggregates in Concrete Mark Alexander, Sidney Mindess, 2005-09-01 This book provides a detailed guide to the selection and use of aggregates in concrete It presents an overview of aggregate sources and production techniques followed by a detailed study of their physical mechanical and chemical properties Then it looks at the use of aggregates in both plastic and hardened concretes and in the overall mix design Special aggregates and their applications are discussed as are the current main specifications standards and tests

Proceedings of the 7th International Conference on Concrete Repair, Rehabilitation and Retrofitting Hans Beushausen, Joanitta Ndawula, Mark Alexander, Frank Dehn, Pilate Moyo, 2024-10-31 This book gathers contributions presented at the 7th International Conference on Concrete Repair Rehabilitation and Retrofitting ICCRRR held in Cape Town South Africa on November 4 6 2024 The conference aims at sharing knowledge and experience on current developments in concrete technology durability design and service life management condition assessment of concrete structures and concrete repair rehabilitation and retrofitting The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Fibre Reinforced Cementitious Composites Arnon Bentur, Sidney Mindess, 2006-11-16 Advanced cementitious composites can be designed to have outstanding combinations of strength five to ten times that of conventional concrete and energy absorption capacity up to 1000 times that of plain concrete This second edition brings together in one volume the latest research developments in this rapidly expanding area The book is split

Strain-Hardening Cement-Based Composites Viktor Mechtcherine, Volker Slowik, Petr Kabele, 2017-09-04 This is the proceedings of the 4th International Conference on Strain Hardening Cement Based Composites SHCC4 that was held at the Technische Universität Dresden Germany from 18 to 20 September 2017 The conference focused on advanced fiber reinforced concrete materials such as strain hardening cement based composites SHCC textile reinforced concrete TRC and high performance fiber reinforced cement based composites HPFRCC All these new materials exhibit pseudo ductile behavior resulting from the formation of multiple fine cracks when subject to tensile loading The use of such types of fiber reinforced

concrete could revolutionize the planning development dimensioning structural and architectural design construction of new and strengthening and repair of existing buildings and structures in many areas of application The SHCC4 Conference was the follow up of three previous successful international events in Stellenbosch South Africa in 2009 Rio de Janeiro Brazil in 2011 and Dordrecht The Netherlands in 2014 **Report 41: Internal Curing of Concrete - State-of-the-Art Report of RILEM Technical Committee 196-ICC** Ole Mejlhede Jensen,2007

Rheology and Processing of Construction Materials Viktor Mechtcherine,Kamal Khayat,Egor Secieru,2019-08-24 This book gathers the peer reviewed contributions presented at two parallel closely interconnected events on advanced construction materials and processes namely the 2nd International RILEM Conference on Rheology and Processing of Construction Materials RheoCon2 and the 9th International RILEM Symposium on Self Compacting Concrete SCC9 held in Dresden Germany on 8 11 September 2019 The papers discuss various aspects of research on the development testing and applications of cement based and other building materials together with their specific rheological properties Furthermore the papers cover the latest findings in the fast growing field of self compacting concrete addressing topics including components properties and characterization chemical admixtures effect of binders incl geopolymers calcined clay etc and mixture design laboratory and in situ rheological testing constitutive models and flow modelling numerical simulations mixing processing and casting processes and additive manufacturing 3D printing Also presenting case studies the book is of interest to researchers graduate students and industry specialists such as material suppliers consultants and construction experts

Nanoindentation in Materials Science Jiri Nemecek,2012-10-17 Nanotechnologies have already attracted massive interest in multiple fields of science and industry In the past decades we have witnessed the progress in micro level experimental techniques that revolutionize the material science Designing new materials based on the knowledge of mechanics of their building blocks and microstructure manipulations at nanometer scale have become a reality Nanoindentation as a leading micro level mechanical testing technique has attracted wide attention in numerous research fields and applications Nowadays an extensive variety of testing areas ranging from classical thin coatings in machinery engineering electronics and composites to far fields of civil engineering biomechanics implantology or even agriculture can be covered with this universal testing tool The book aims to be a walk through achievements in some of the distant fields and to give a brief overview of the current frontiers in nanoindentation Although it is not possible to cover the whole width of the possible themes in one book it is believed that the reader will benefit from the topics variety and the book will serve as a useful source of literature references

PRO 32: International Conference on Advances in Concrete and Structures - ICACS 2003 (Volume 2) Ying-shu Yuan,Surendra P. Shah,Heng-lin Lü,2003

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