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Historic Mortars

Characterisation, Assessment,
Conservation and Repair



 Springer

Historic Mortars Characterisation Assessment And Repair Rilem Series

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Historic Mortars Characterisation Assessment And Repair Rilem Series:

Historic Mortars Jan Válek, John J. Hughes, Caspar J. W. P. Groot, 2012-06-23 This volume focuses on research and practical issues connected with mortars on historic structures The book is divided into four sections Characterisation of Historic Mortars Repair Mortars and Design Issues Experimental Research into Properties of Repair Mortars and Assessment and Testing The papers present the latest work of researchers in their field The individual contributions were selected from the contributions to the 2nd Historic Mortars Conference which took place in Prague September 22-24 2010 All papers were reviewed and improved as necessary before publication This peer review process by the editors resulted in the 34 individual contributions included in here One extra paper reviewing and summarising State of the Art knowledge covered by this publication was added as a starting and navigational point for the reader The editors believe that having these papers in print is important and they hope that it will stimulate further research into historic mortars and related subjects Report

28: Characterisation of Old Mortars with Respect to their Repair - State-of-the-Art Report of RILEM Technical Committee 167-COM C. Groot, G. Ashall, J. Hughes, 2007 **Historic Mortars** John J. Hughes, Jan Válek, Caspar J. W. P.

Groot, 2018-07-06 This book presents a state of the art in mortar characterisation experimentation with and applications of new mortars for conservation and repair of historic buildings This volume includes the following topics characterisation of historic mortars methods interpretation application of results development of new materials for conservation compatibility durability mix designs the history of mortar technology and fundamental experimental studies of material properties The papers have been selected from those presented at the 3rd Historic Mortars Conference held in Glasgow Scotland September 11-14th 2013 All the papers here underwent a two stage peer review process for the conference and again for this volume In some cases this has resulted in a revision and updating of content **Building for Eternity** C.J. Brandon, R.L.

Hohlfelder, M.D. Jackson, J.P. Oleson, 2014-08-29 One marker of the majesty of ancient Rome is its surviving architectural legacy the stunning remains of which are scattered throughout the circum Mediterranean landscape Surprisingly one truly remarkable aspect of this heritage remains relatively unknown There exists beneath the waters of the Mediterranean the physical remnants of a vast maritime infrastructure that sustained and connected the western world's first global empire and economy The key to this incredible accomplishment and to the survival of structures in the hostile environment of the sea for two thousand years was maritime concrete a building material invented and then employed by Roman builders on a grand scale to construct harbor installations anywhere they were needed rather than only in locations with advantageous geography or topography This book explains how the Romans built so successfully in the sea with their new invention The story is a stimulating mix of archaeological geological historical and chemical research with relevance to both ancient and modern technology It also breaks new ground in bridging the gap between science and the humanities by integrating analytical materials science history and archaeology along with underwater exploration The book will be of interest to anyone

interested in Roman architecture and engineering and it will hold special interest for geologists and mineralogists studying the material characteristics of pyroclastic volcanic rocks and their alteration in seawater brines The demonstrable durability and longevity of Roman maritime concrete structures may be of special interest to engineers working on cementing materials appropriate for the long term storage of hazardous substances such as radioactive waste A pioneering methodology was used to bore into maritime structures both on land and in the sea to collect concrete cores for testing in the research laboratories of the CTG Italcementi Group a leading cement producer in Italy the University of Berkeley and elsewhere The resulting mechanical chemical and physical analysis of 36 concrete samples taken from 11 sites in Italy and the eastern Mediterranean have helped fill many gaps in our knowledge of how the Romans built in the sea To gain even more knowledge of the ancient maritime technology the directors of the Roman Maritime Concrete Study ROMACONS engaged in an ambitious and unique experimental archaeological project the construction underwater of a reproduction of a Roman concrete pier or pila The same raw materials and tools available to the ancient builders were employed to produce a reproduction concrete structure that appears to be remarkably similar to the ancient one studied during ROMACONS fieldwork between 2002 2009 This volume reveals a remarkable and unique archaeological project that highlights the synergy that now exists between the humanities and science in our continuing efforts to understand the past It will quickly become a standard research tool for all interested in Roman building both in the sea and on land and in the history and chemistry of marine concrete The authors also hope that the data and observations it presents will stimulate further research by scholars and students into related topics since we have so much more to learn in the years ahead

Testing and Characterization of Sustainable Innovative Bituminous Materials and Systems Manfred N. Partl, Laurent Porot, Hervé Di Benedetto, Francesco Canestrari, Paul Marsac, Gabriele Tebaldi, 2018-02-01 This book presents the detailed results of five task groups of the RILEM technical committee TC 237 SIB on Testing and Characterization of Sustainable Innovative Bituminous Materials and Systems It concentrates on specific new topics in asphalt binder and mixture testing dealing with new developments in asphalt testing in particular also in view of new innovative bituminous materials such as hot and cold recycled mixtures grid reinforced pavements and recycled Reclaimed Asphalt Pavements RAP where test methods developed for traditional asphalt concrete are not a priori applicable The main objective is providing a basis for pre standardization by comparing different test methods and showing ways for fundamental improvements Thus the book also points the way for a further advanced chemical physical understanding of materials and their role in pavement systems relying on fundamental material properties and suitable models for describing and predicting the intrinsic mechanisms that determine the material behavior

Conservation and Restoration of Historic Mortars and Masonry Structures Violeta Bokan Bosiljkov, Andreja Padovnik, Tilen Turk, 2023-06-07 This book gathers the latest advances innovations and applications in the field of historic mortars and masonry structures conservation and restoration as presented by international researchers and professionals at

the 6th Historic Mortars Conference HMC held in Ljubljana Slovenia on September 21-23 2022 It covers topics such as characterization of historic mortars and masonry structures sampling and test methods historic production processing and application of mortars renders and grouts assessment of historic renders and plasters conservation and preventing conservation case studies repair mortars and grouts requirements and design compatibility issues durability and effectiveness and adequacy of testing procedures Special attention is given to historic mortars where one of the binders or the only binder is Portland cement and to the structures in which these materials are used The contributions which were selected through a rigorous international peer review process share new knowledge and exciting ideas that will help protect heritage buildings more efficiently and foster new multidisciplinary collaborations in this area Chapter Performance Evaluation of Patch Repairs on Historic Concrete Structures PEPS An Overview of the Assessment Methodology is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) Artistry in Bronze Jens M Daehner, Kenneth Lapatin, Ambra Spinelli, 2017-11-21 The papers in this volume derive from the proceedings of the nineteenth International Bronze Congress held at the Getty Center and Villa in October 2015 in connection with the exhibition Power and Pathos Bronze Sculpture of the Hellenistic World The study of large scale ancient bronzes has long focused on aspects of technology and production Analytical work of materials processes and techniques has significantly enriched our understanding of the medium Most recently the restoration history of bronzes has established itself as a distinct area of investigation How does this scholarship bear on the understanding of bronzes within the wider history of ancient art How do these technical data relate to our ideas of styles and development How has the material itself affected ancient and modern perceptions of form value and status of works of art www.getty.edu/publications/artistryinbronze

Non-Destructive Assessment of Concrete Structures: Reliability and Limits of Single and Combined Techniques Denys Breysse, 2012-01-21 This book gives information on non destructive techniques for assessment of concrete structures It synthesizes the best of international knowledge about what techniques can be used for assessing material properties strength and structural properties geometry defects It describes how the techniques can be used so as to answer a series of usual questions highlighting their capabilities and limits and providing advices for a better use of techniques It also focuses on possible combinations of techniques so as to improve the assessment It is based on many illustrative examples and give in each case references to standards and guidelines **Non-Destructive In Situ Strength Assessment of Concrete** Denys Breysse, Jean-Paul Balayssac, 2021-04-27 The book presents the work of the RILEM Technical Committee 249-ISC Addressing the effective application of new recommendations for non destructive in situ strength assessment of concrete it provides information about the different steps of the investigation and processing of test results until the delivery of strength estimates and includes tables giving the minimum required number of cores in a variety of situations as well as several examples of how the recommendations can be used in practice The book explores a topic

which is of major importance i.e. the assessment of concrete compressive strength in existing structures This property both mean and standard deviation is a key input in many cases such as the reinforcement of structures the safety checking the extension of service life As the new RILEM recommendations imply a deep revision and improvement of field practice the book is intended for managers of structures structural engineers and specialists of NDT that have to answer these issues More widely it will benefit engineers and students who are interested in NDT and in the safety analysis of structures

Pavement, Roadway, and Bridge Life Cycle Assessment 2024 Gerardo W. Flintsch, Eugene A. Amari, John Harvey, Imad L. Al-Qadi, Hasan Ozer, Davide Lo Presti, 2024-05-24 This book highlights the latest advances innovations and applications in the field of LCA in pavements bridges and roadways as presented by leading international researchers at the 6th International Symposium on Pavement Roadway and Bridge Life Cycle Assessment ISPRB LCA2024 held in Arlington VA USA on June 6-8 2024 It covers a diverse range of topics concerning assessment of environmental impacts of pavements bridges and roadways including environmental product declarations EPDs and use of life cycle assessment LCA in design data and case studies LCA methodologies for transportation infrastructure durability and service life assessments maintenance strategies to enhance performance and minimize environmental impacts evaluating the environmental impacts of materials and construction recycling and reuse of materials carbonation of concrete pavement vehicle interaction life cycle thinking in climate change planning and climate change mitigation 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

Conserving Stone Heritage Francesca Gherardi, Pagona Noni Maravelaki, 2022-01-12 The design of treatments for the conservation of stone in historical buildings and works of art is a challenging task as a deep understanding of the working properties and performance of the available products and methods is required to tackle complex decay patterns The chapters in this book illustrate the state of the art on traditional and innovative materials and methods for stone conservation examining current trends and future perspectives Each of them is focused on describing the consequent phases that complement the spectrum of the conservation intervention preliminary investigations condition assessment and mapping of the deterioration patterns surface cleaning with a specific focus on laser technology consolidation protection repair mortars and grouts and onsite assessment and monitoring of conservation treatments The performance of the applied conservation interventions is criticized and discussed with an aim of providing the specialists with specific tools for stone conservation This book intends to bridge the gap between laboratory studies and conservation interventions by linking together the diverse scientific areas involved in the preservation of stone heritage Different case studies are included highlighting specific conservation challenges and their solutions in order to understand and overcome them The aim is to guide conservators conservation scientists and heritage stakeholders in the selection of compatible and sustainable materials and techniques for Conserving Stone Heritage

8th RILEM International

Symposium on Testing and Characterization of Sustainable and Innovative Bituminous Materials Francesco

Canestrari, Manfred N. Partl, 2015-09-24 This work presents the results of RILEM TC 237 SIB Testing and characterization of sustainable innovative bituminous materials and systems The papers have been selected for publication after a rigorous peer review process and will be an invaluable source to outline and clarify the main directions of present and future research and standardization for bituminous materials and pavements The following topics are covered Characterization of binder aggregate interaction Innovative testing of bituminous binders additives and modifiers Durability and aging of asphalt pavements Mixture design and compaction analysis Environmentally sustainable materials and technologies Advances in laboratory characterization of bituminous materials Modeling of road materials and pavement performance prediction Field measurement and in situ characterization Innovative materials for reinforcement and interlayer systems Cracking and damage characterization of asphalt pavements Recycling and re use in road pavements This is the proceedings of the RILEM SIB2015 Symposium Ancona Italy October 7 9 2015 Report 40: Non-Destructive Evaluation of the Penetrability and Thickness of the Concrete Cover - State-of-the-Art Report of RILEM Technical Committee 189-NEC Roberto Torrent, Luis

Fernández Luco, 2007 *Fourth RILEM International Conference on Concrete and Digital Fabrication* Dirk Lowke, Niklas

Freund, David Böhler, Friedrich Herding, 2024-08-31 This book gathers peer reviewed contributions presented at the 4th RILEM International Conference on Concrete and Digital Fabrication Digital Concrete held in Munich Germany on September 4 6 2024 Focusing on additive and automated manufacturing technologies for the fabrication of cementitious construction materials such as 3D concrete printing powder bed printing and shotcrete 3D printing the papers highlight the latest findings in this fast growing field addressing topics like mixture design admixtures rheology and fresh state behavior alternative materials microstructure cold joints interfaces mechanical performance reinforcement structural engineering durability and sustainability automation and industrialization Proceedings of the RILEM Spring Convention and Conference 2024 Liberato Ferrara, Giovanni Muciaccia, Davide di Summa, 2024-11-06 This book gathers peer reviewed

contributions presented at the RILEM Spring Convention and Conference held in Milan Italy on April 7 12 2024 The theme of the Conference was Advanced construction materials and processes for a carbon neutral society which was aimed at discussing advanced construction eco friendly materials and processes for new and existing structures towards a carbon neutral society The volume covers the current and emerging approaches that lead to an optimized design and maintenance of constructions and systems It includes the development of materials and structural service life models and life cycle design in order to maximise longevity and level of service while minimising the environmental impact of constructions and systems It also includes the analysis and design of larger systems such as communities cities or regions aiming at reducing risk and increasing resilience The following subtopics are included advanced materials and structural concept to enhance the resilience and robustness of the built environment and communities at local and global scales risk based inspection and

maintenance life cycle analysis and service models performance based design improved design strategies by integrating materials and structures

Second RILEM International Conference on Earthen Construction Christopher Beckett, Ana Bras, Antonin Fabbri, Emmanuel Keita, Céline Perlot, Arnaud Perrot, 2024-06-26 This book gathers the peer reviewed papers presented at the Second RILEM International Conference on Earthen Construction ICEC held in Edinburgh United Kingdom on July 8 10 2024 It highlights the latest advances and innovations in the field of earth based building materials and construction The conference topics encompass material characterisation and quality control hydro mechanical behaviour reinforcement behaviour seismic behaviour in situ and field testing additive manufacturing 3D printing rheology biostabilisation molecular simulation microstructure durability fire performance hygro thermal behaviour life cycle analysis climate change adaptation economic impacts and earthen architecture As such the book represents an invaluable up to the minute tool and offers an important platform to engineers architects and geophysicists

Proceedings of the 75th RILEM Annual Week 2021 J. Ivan Escalante-Garcia, Pedro Castro Borges, Alejandro Duran-Herrera, 2023-03-10 This volume gathers the latest advances innovations and applications in the field of sustainable construction materials and structures as presented by leading international researchers and engineers at the 75th RILEM Annual Week 75RW 2021 held in Merida Mexico on August 29 September 3 2021 It covers topics such as supplementary cementitious materials durability and Life Cycle assessment in urban and marine conditions additive manufacturing of concrete in construction structural performance and design non Portland cements and Alkali activated cementitious materials and eco concrete cultural heritage non destructive testing techniques bituminous materials and construction materials polymers timber bamboo recycling and masonry 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

Durability of Building Materials and Components Vasco Peixoto de Freitas, J.M.P.Q. Delgado, 2013-07-16 *Durability of Building Materials and Components* provides a collection of recent research works to contribute to the systematization and dissemination of knowledge related to the long term performance and durability of construction and simultaneously to show the most recent advances in this domain It includes a set of new developments in the field of durability service life prediction methodologies the durability approach for historical and old buildings asset and maintenance management and on the durability of materials systems and components The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues

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 Advances in Interlaboratory Testing and Evaluation of Bituminous Materials Manfred N. Partl, Hussain U. Bahia, Francesco Canestrari, Chantal de la Roche, Hervé Di Benedetto, Herald Piber, Dariusz Sybilski, 2012-10-17 This STAR on asphalt materials presents the achievements of RILEM TC 206 ATB acquired over many years of interlaboratory tests and international knowledge exchange It covers experimental aspects of bituminous binder fatigue testing the background on compaction methods and imaging techniques for characterizing asphalt mixtures including validation of a new imaging software it focuses on experimental questions and analysis tools regarding mechanical wheel tracking tests comparing results from different labs and using finite element techniques Furthermore long term rutting prediction and evaluation for an Austrian road are discussed followed by an extensive analysis and test program on interlayer bond testing of three different test sections which were specifically constructed for this purpose Finally the key issue of manufacturing reclaimed hot mix asphalt in the laboratory is studied and recommendations for laboratory ageing of bituminous mixtures are given

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