Jan Válek John J. Hughes Caspar J. W. P. Groot *Editors* 

# Historic Mortars

Characterisation, Assessment, Conservation and Repair





# <u>Historic Mortars Characterisation Assessment And</u> <u>Repair Rilem Bookseries</u>

C.J. Brandon, R.L. Hohlfelder, M.D. Jackson, J.P. Oleson

#### **Historic Mortars Characterisation Assessment And Repair Rilem Bookseries:**

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 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 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 Cutting-edge

Technologies in Ancient Greece Marina Panagiotaki, Ilias Tomazos, Fotios Papadimitrakopoulos, 2020-04-30 This volume examines materials produced with the use of fire and mostly by use of the kiln metals plasters glass and glaze aromatics The technologies based on fire have been considered high tech technologies and they have contributed to the evolution of man throughout history Papers highlight technical innovations of the technician artist pyrotechnologist that lived in the Aegean mainland Greece and the islands during the Bronze Age the Classical and the Byzantine periods Turcanu-Carutiu, 2020-09-09 This book presents research efforts in the field of heritage According to the principle Open Minds Open Science the approach of the researchers helps us to define establish and affirm heritage in the cultural social and political dimension of today s world based on what we have achieved and be specific to the realities of the 21st century Cultural heritage is made up of many big and small things It is preserved through books artifacts objects images photographs art and oral tradition Sometimes we can touch and see what a culture is other times it is intangible From this point of view this book Heritage is transdisciplinary and contains the most diverse topics related to culture art nature science diplomacy and cultural policy 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 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 Building for Eternity C.J. Brandon, R.L. Hohlfelder, M.D. Jackson, J.P. Oleson, 2014-08-29 multidisciplinary collaborations 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 ROMACON s 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 Periodico di Mineralogia Vol. 82, 3 december 2013 Antonio Gianfagna, 2014-02-07 Raffaella De Luca Miguel Angel Cau Ontiveros Domenico Miriello Alessandra Pecci Emilia Le Pera Andrea Bloise and Gino Mirocle Crisci Archaeometric study of mortars and plasters from the Roman City of Pollentia Mallorca Balearic Islands Fabio Fratini Andrea Cagnini Simone Porcinai Paola Lorenzi and Stefano Pasolini An unusual mortar with a magnesium binder in the Perseus of

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tomo I parte II capp 1 10 ed dato riferimento esauriente di tutti i reperti mobili sia attraverso il loro assemblaggio per contesti di giacitura sia attraverso la loro classificazione tipologica tomo II parte III Pur essendo il lavoro articolato in ampie parti di sintesi e di interpretazione storica dei dati tomo I parte II cap 11 si cos mantenuto fede alla logica della presentazione integrale dei dati che riteniamo sia la sola che possa permettere a tutti gli studiosi interessati alle nostre ricerche non solo di giudicare le letture storiche conclusive forse caduche e opinabili ma anche di riprendere in esame le stesse basi di conoscenza per proporre o sostenere considerazioni storiche diverse da quelle avanzate Альманах: Культура. Искусство. Реставрация. 2015 (1). Часть 1: Реставрация Альманах, 2020-09-02 Dealing with Heritage Barbara Lubelli, Uta Pottgiesser, Wido Quist, Susanne Rexroth, 2025-04-01 It is an honor to introduce this book which brings together a number of very important aspects of the restoration architect's profession with this short statement Dealing with heritage requires that the restoration architect makes well considered and definable choices It should not only be about conservation but attention must and may also be paid to making heritage future proof When it comes to making heritage future proof we still stand at the start of a major sustainability transition in which making interventions will be indispensable Such interventions are made possible by recognizing and utilizing the opportunities that heritage offers but they should always be made from a view that places the preservation of the core values of the heritage centrally This book is part of a series of books produced in cooperation with and financed by the Stichting Rondeltappe Bernoster Kemmers All books of the series have been reviewed and edited by Silvia Naldini Section of Heritage Architecture Faculty of Architecture and the Built Environment Delft University of Technology The Netherlands Sustainable Use of Traditional Geomaterials in Construction Practice, 2016-08-02 Geomaterials derived from the Earth's crust and used in construction after appropriate processing are among the earliest raw materials exploited processed and used by humans Their numerous functional properties include accessibility workability and serviceability and these are explored within this volume In modern society sustainable use of raw materials specifically those exploited in large volumes such as geomaterials for construction raises questions of reducing extraction of primary resources and thus minimizing impacts on natural systems and also employment of materials and technologies to lower emissions of deleterious substances into the atmosphere This will be possible only if we fully understand the properties processing and mode of use of traditional geomaterials Although most of the papers within this volume were written by geologists the contributions will also be of interest to those working in cultural heritage monument conservation civil engineering and architecture **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 Rilem TC Characterization of Old Mortars with Respect to Their Repair C. Groot, M. Thomson, 1999 RILEM TC Characterization of old mortars with respect to their repair was established in the fall of 1996 Its objectives are for the establishment of general performance criteria and recommendations dealing with mortars for restoring and repairing

existing masonry The deliverables of the committee will take into account 1 Characterization of old mortars in order to reproduce similar mortars for restoration and repair 2 Identification of fundamental parameters and standardization of testing methods for measuring them PRO 12: International RILEM Workshop on Historic Mortars: Characteristics and Tests Peter Bartos, Caspar Groot, John J. Hughes, 2000 2nd Historic Mortars Conference and RILEM TC 203-RHM Repair Mortars for Hystoric Masonry Final Workshop Jan Valek, 2010 2nd Historic Mortars Conference and RILEM TC 203-RHM Repair for Historic Masonry Final Workshop Jan Valek, Caspar Groot, John J. Hughes, 2010 HMC 2010 Historic Mortars Conference, Jan Válek, 2010 Repairs Mortars for Historic Masonry, 2008

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