

Charles Selwitz

Epoxy Resins in Stone Conservation



and by-product

Epoxy Resins In Stone Conservation

**Getty Conservation Institute. Scientific
Program**



Epoxy Resins In Stone Conservation:

Epoxy Resins in Stone Conservation Charles Selwitz, 1992-08-27 This book presents a review of research on the use of epoxy resins as consolidants for sculpture and buildings. It deals with both the methods and materials used by conservators focusing on a detailed chemistry of the materials as well as the practical methods of application. Epoxy resins have been widely used as structural adhesives to repair cracks in commercial and historic buildings but the application of this technology to the stabilization of fragile stone has generally failed. However the proper formulation of epoxy systems with solvents has solved problems of viscosity penetration crust formation and discoloration leading to two different schools of treatment detailed in the publication. Conservators in Europe have concentrated on the treatment of statuary and isolated sections of structures with alcohol solutions of the resins maintained in contact with the surface for a period of time in order to get deep penetration. In the United States treatment has focused on stabilizing entire structures or major portions of buildings by spraying them with acetone solutions of epoxy resins. The various techniques of application are discussed and evaluated. The book seeks to provide an expanded inventory of these different techniques allowing the conservator to make informed judgments.

Handbook of Polymers in Stone Conservation Elisabetta Princi, 2014-11-20 This handbook is dedicated to the conservation of stone materials by the application of polymers. A short introduction on polymer chemistry is given to highlight their characteristics and properties. After the physical and chemical attributes of stone are summarised the problems related to its degradation are discussed. Finally the properties of the various polymers of potential value for stone restoration are reviewed and classified by schemes and tables and pointers for the future are suggested. This handbook will be of great interest to those who share the author's enthusiasm for stone artworks and her dedication to their restoration and conservation.

Stone Conservation Clifford A. Price, Eric Doehne, 2011-02-15 First published in 1996 this volume has been substantially updated to reflect new research in the conservation of stone monuments sculpture and archaeological sites.

Stone Conservation: Principles and Practice Alison Henry, 2015-12-08 Winner of the RIBA Book Award this important and timely publication brings together contributions from leading stone conservation practitioners. It discusses the philosophical principles on which stone conservation is founded and the need to understand the full history and development of a building before starting work. Other topics covered in this book include consolidation cleaning and the replacement of stone conservation of different stone types including limestone sandstone and marble problems of dealing with polychrome stone and finally issues relating to church monuments and graveyards taking account of the need for good maintenance and health and safety requirements. The book is illustrated with the author's own examples of stone conservation in practice. Architects surveyors and craftsmen involved in the conservation of stone structures will find this both a practical and useful reference work.

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 *Alkoxysilanes and the Consolidation of Stone* George Wheeler, 2005 Stone is one of the oldest building materials and its conservation ranks as one of the most challenging in the field The use of alkoxysilanes in the conservation of stone can be traced as far back as 1861 when A W von Hoffman suggested their use for the deteriorating limestone on the Houses of Parliament in London Alkoxysilane based formulations have since become the material of choice for the consolidation of stone outdoors | This volume the first to cover comprehensively alkoxysilanes in stone consolidation synthesizes the subject's vast and extensive literature which ranges from production of alkoxysilanes in the nineteenth century to the extensive contributions from sol gel science in the 1980s and 90s Included are a historical overview an annotated bibliography and discussions of the following topics the chemistry and physics of alkoxysilanes and their gels the influence of stone type commercial and noncommercial formulations practice lab and field evaluation of service life and recent developments This book is designed for conservators scientists and preservation architects in the field of stone conservation and will also serve as an indispensable introduction to the subject for students of art conservation and historic preservation

Conservation of Building and Decorative Stone John Ashurst, Francis G. Dimes, 1998 One of the problems which beset the conservation of stone buildings is the fragmentation of the disciplines involved This book brings these disciplines together by the involvement of contributors with different experiences approaches

Conservation of Building and Decorative Stone F G Dimes, J. Ashurst, 2007-11-02 One of the problems which beset the practical conservation of stone buildings is the fragmentation of the disciplines involved This book with both volumes now available as one invaluable paperback brings these disciplines together by the involvement of contributors with different experiences and approaches to the same material Part one is an introduction to the complexities and background history of stone conservation followed by the most comprehensive description yet produced of the building and decorative stones used in the British Isles

In part two practitioners involved in stone conservation describe ways in which major structural masonry problems secondary building problems and different stone surface conditions may be treated A variety of building types and environments has been used to ensure that the broad scope of common problems is covered This second part of the book will be of practical value to art historians archaeologists architects surveyors and engineers masonry contractors and sculpture conservators in solving problems and in learning to use each other s skills and experience

Biodeterioration of Stone in Tropical Environments Rakesh Kumar, Anuradha V. Kumar, 1999 This series includes monographs research results and state of the art reviews of conservation literature by Institute staff and others Discusses the types and causes of stone biodeterioration in hot and humid climates preventive and remedial methods selection of chemical treatments status of current research and areas for further investigation

NBS Technical Note, 1980 Conservation of Architectural Heritage (CAH) Antonella Versaci, Claudia Cennamo, Natsuko Akagawa, 2022-04-27 This book discusses the fundamentals and practical applications of heritage conservation as an important tool of a city s development It presents case studies that demonstrate how to achieve a balance between the promotion of tourism industry and the generation of income while also seeking optimum sustainable methods for Conserving the City s Tradition and Identity The book in hand offers useful insights to a wide array of audience aware of the need to preserve the architectural beauty of cities such as architects policymakers investors and even the wide public who is interested in ways of conserving and protecting cultural sites

Materials for Conservation C V Horie, 2013-05-13 *Materials in Conservation* is the definitive introduction to the properties of materials used in conservation The continual struggle of conservators to ameliorate the deterioration of objects has led to increasing use of synthetic polymers These materials are part of the sophisticated technology that has been developed to augment and often replace traditional materials and methods Conservators therefore have a wider range of techniques available However they must be able to appreciate the potentials and pitfalls of any proposed technique The first section explains physical and chemical properties which are important in the conservation process i e application ageing reversal The topics covered include molecular weight glass transition temperature solubility and solvents polymerisation and degradation reactions The second section provides a detailed consideration of the individual materials current and obsolete used in conservation drawing out the factors relevant to their effects on objects The conservation uses of each material are summarised and referenced to allow further study In five appendices the properties of the polymers solvents and their interactions are tabulated with a list of suppliers and conversion table of physical units IUPAC and SI nomenclature is used throughout the book In this second edition this classic text is revised and updated to include modern materials such as cyclododecane and current ideas on adhesion consolidation and reversibility making *Materials in Conservation* the definitive source of vital information in the field This handy reference book should be on the bench of every conservator and available wherever objects from steam engines to dried plants are preserved

Stone in Architecture Siegfried Siegesmund, Rolf

Snethlage,2011-01-25 The weathering of historical buildings and indeed of monuments and sculptures of natural stone is a problem that has been encountered for hundreds of years However a dramatic increase in deterioration in the structure of our built heritage has been observed during the past century To understand the complex interaction that the stone in a building suffers with its near environment the building and the macro environment the local climate and atmospheric conditions requires an interdisciplinary approach and the application of many disciplines Climate change over the next 100 years is likely to have a range of direct and indirect impacts on many natural and physical environments including the built environment The protection of our architectural heritage has both cultural and historical importance as well as substantial economic and ecological value Large sums of money are being spent world wide on measures for the preservation of monuments and historical buildings The past few decades has seen an unprecedented level of research activity in this area the results of which are often difficult to access and are summarized in the new edition of STONE IN ARCHITECTURE

Lasers in the Conservation of Artworks VIII Roxana Radvan,John F. Asmus,Marta Castillejo,Paraskevi Pouli,Austin Nevin,2010-12-01 Laser techniques offer possibilities for the examination and conservation of artwork and for the prevention of cultural heritage This collection of peer reviewed papers from the 8th International Conference on Lasers in the Conservation of Artworks Sibiu Romania September 21 25 2009 addresses various aspects of cultural heritage preservation

Bulletin - Association for Preservation Technology Association for Preservation Technology,2001 **Epoxies for Wood Repairs in Historic Buildings** Morgan W. Phillips,Judith E. Selwyn,1978 **Basic Methods of Conserving Underwater Archaeological Material Culture** Donny Leon Hamilton,1996 **Polymer Nanocomposite Coatings** Vikas Mittal,2016-04-19 This work explores the use of composite nanotechnology for thin coatings on various substrates It compiles recent advances in nanocomposite coatings for experienced researchers and provides background information for those new to the field The book not only explains the synthesis of bulk nanocomposite materials it describes their application in

Research Abstracts of the Scientific Program Getty Conservation Institute. Scientific Program,1994 This series presents current research being conducted under the auspices of the Getty Conservation Institute An overview of research from 1984 to 1994 including environmental controls in museums the use of protective materials and analyses in the conservation of cultural objects and archaeological sites and the use of new technologies for monitoring documentation and analysis *Conservation of Wood Artifacts* A. Unger,A.P. Schniewind,W. Unger,2013-03-09 The impetus for this book was the desire to systematically organize the extant literature on the conservation of cultural property made of wood from its beginnings before the Christian Era to the year 2000 Various published reviews and monographs including *Holzkonservierung* Wood Conserva tion published by the senior author in 1988 have appeared over the years especially in English and in German They have provided exemplary treat merit of individual areas or aspects of wood conservation but a comprehensive up to date exposition of historic and current developments has been lacking The diverse professional fields of

the authors as well as their insights into methods of conservation and restoration of wood artifacts in Europe North America and Asia provided a solid basis for the success of this under taking One of the goals during the examination of the literature was that not only well known conservators and scientists from countries that are leaders in wood conservation should be represented but that less well known often not as readily accessible contributions should also be included Only in this manner was it possible to draw a comprehensive picture of the national and international state of wood conservation The Art and Archaeology Technical Abstracts AATA of the Getty Institute were very helpful in our efforts to evaluate as many publications as possible

Epoxy Resins In Stone Conservation Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Epoxy Resins In Stone Conservation**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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