

Table of Contents

Preface

Rehabilitation of Masonry Buildings with Fibre Reinforced Mortar: Practical Design Considerations Concerning Seismic Resistance

I. Boem and N. Gattesco 1

Graffiti Protection on Concrete in the New Building and in the Renovation

S. Jäntschi and U. Diederichs 9

Properties of Bonding Sealants in the Sealing of Cement-Based Materials

A. Boháček and J. Šlanhof 19

Monitoring of Chemical Resistance of New Grouting Materials

P. Figala, R. Drochytka, V. Černý, R. Hermann and J. Kolisko 27

Adhesives for the Installation of Cast Basalt Elements on Metal and Comparison of Properties when Using Different Types of Fillers

J. Hodul, T. Žlebek, L. Mészárosová, A. Jakubík and R. Drochytka 35

Experimental Characterization of Masonry Panels Strengthened with NFRMC

C.B. de Carvalho Bello, D. Baraldi, A. Cecchi and D.V. Oliveira 43

Use of Specially Treated Hazardous Waste as Filler in Polymer Coatings

T. Žlebek, J. Hodul and R. Drochytka 49

Analytical Techniques for Detection of Oil Presence in Mortar

P. Bauerová, P. Reiterman, P. Mácová, Z. Slížková, M. Havelcová, A. Mahun, S. Švarcová and M. Keppert 57

Properties and Structure of UV Light Cured CIPP Composites

J. Majerová, J. Hodul and R. Drochytka 67

Polymer-Based Repair Mortar Containing Waste Perlite Powder

R. Hermann, J. Hodul and A. Jakubík 73

Evaluation of Cured-in-Place Pipe Porosity Using CT and Microscopy

J. Majerová and R. Drochytka 81

Protection of Wood to against Degradation by TiO₂: Scanning Electron Microscopy and Energy Dispersive Spectroscopy

Z. Prošek, P. Svora and P. Kuklík 87

Benefit of Ultra-High Strength Infill in Concrete-Filled Steel Tubular Columns

P. Bukovská, M. Karmazínová and M. Štrba 93

Protective Systems Ensuring Durability of Wooden Structures

P. Kuklík, P. Svora and A. Gregorová 101

Verification of the Use of a Kucera Drill for Testing of Wood Properties

P. Černý, R. Halamová and V. Heřmánková 107