

A BIBLIOGRAPHY ON MASONRY MAINTENANCE, RESTORATION, ETC

Clayford T. Grimm ¹

ABSTRACT

This bibliography provides a guide to the current literature on how to conserve, clean, maintain, point, tuck-point, preserve, refurbish, rehabilitate, renovate, repair, replace, restore, retrofit, strengthen, treat, and care for adobe, clay brick, stone, terra cotta, and concrete masonry. The paper provides 359 citations on application of grout, epoxy, and coatings, treatment of biological infestation and rising damp, and seismic isolation of buildings.

Key words: conservation, maintenance, preservation, reconstruction, rehabilitation, renovation, repair, restoration, retrofit, strengthening

¹ Consulting Architectural Engineer, Austin, Texas

DEFINITIONS

The terminology on how to fix masonry is so abundant as to be confusing. It includes care, clean, conserve, maintain, point, preserve, protect, refurbish, rehabilitate, renovate, repair, replace, restore, retrofit, save, stabilize, strengthen, transform, treat, and tuckpoint. The first step in the application of the scientific process is the definition of terms. An appendix provides suggested definitions of the more typical words use to describe the process applied to masonry.

GUIDE TO THE LITERATURE

This bibliography provides 359 numbered citations to the relevant literature, including nine other bibliographies. Table 1 lists key words and their synonyms that appear in the title of the cited references together with the associated citation number.

CONCLUSION

Happy hunting.

Table 1. Keywords in Citation Titles

Table 1. Keywords in Citation Titles					
adobe	30, 56, 65, 69, 280, 281, 283, 284				
brick	5, 19, 41, 48, 57, 51, 72, 83, 101, 107, 108, 114, 123, 129, 130,				
	146, 149, 150, 155, 175, 186, 265, 273, 274, 275, 316				
bibliography	10, 21, 113, 138, 139, 220, 239, 274, 335				
biodegradation	41, 79, 126, 191, 192, 202, 203, 206, 276				
cleaning	7, 16, 17, 18, 20, 36, 62, 68, 97, 100, 102, 112, 117, 135, 137,				
oreuming.	173, 177, 189, 190, 193, 194, 195, 196, 197, 198, 199, 200, 201,				
	203, 205, 207, 208, 225, 260, 271, 285, 286, 317				
coating	38, 37, 113, 133, 309,				
concrete	8, 14, 15, 16, 18, 134, 154, 156				
masonry	0, 1 1, 10, 10, 10 1, 10 1, 10 0				
conservation	2, 24, 57, 60, 80, 81, 93, 113, 129, 193, 204, 209, 217, 224, 236,				
conservation	249, 266, 273, 274, 277, 278, 279, 292, 295,				
grout	50, 87, 100. 110, 153, 157, 158, 183				
isolation	53, 76				
maintenance	9, 10, 12, 14, 15, 19, 39, 43, 55, 66, 73, 82, 88, 99, 124, 125, 128,				
mamtenance	138, 141, 147, 160, 161, 162, 167, 173, 174, 176, 180, 185, 225,				
	229, 242, 261, 328, 316				
mortar	49, 83, 110, 111, 132, 133, 152				
mortar	42, 44, 45, 51, 120, 132, 143, 308,				
pointing	21, 22, 23, 65, 69, 85, 104, 121, 122, 127, 139, 142, 154, 172,				
preservation					
	178, 187, 216, 220, 222, 223, 226, 229, 230, 238, 239, 241, 248,				
	251, 252, 253, 254, 255, 256, 281, 291				
rehabilitation	4, 74, 144, 154, 288, 303, 330,				
renovation	4, 11, 25, 27, 28, 29, 52, 111, 115, 119, 154, 186, 275, 313, 314,				
repair	3, 8, 31, 32, 33, 40, 50, 54, 58, 67, 74, 77, 84, 86, 88, 105, 106,				
	110, 125, 131, 134, 145, 153, 156, 157, 158, 174, 175, 177, 178,				
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	265, 268, 269, 270, 287, 294, 298, 312, 315, 326, 327, 328, 337,				
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restoration	11, 21, 25, 59, 63, 70, 71, 75, 92, 95, 96, 99, 114, 115, 116, 119,				
	122, 142, 152, 164, 165, 166, 168, 169, 179, 182, 210, 211, 213,				
	225, 237, 252, 289, 295, 296, 310, 319, 321, 322, 323, 324,				
retrofit	13, 53, 58, 64, 94, 136, 184, 233, 295,297, 299, 301, 304, 305,				
	306,				
rising damp	5, 89, 109				
stone	24, 47, 52, 68, 93, 112, 113, 114, 130, 137, 189, 190, 191, 192,				
	193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205,				
	207, 208, 209, 214, 215, 216, 217, 218, 218, 220, 221, 222, 223,				
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	253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 266, 271,				
	276, 277, 278, 279, 300, 318, 320, 334, 336				
strengthening	46, 107, 118, 134, 136, 148, 171, 290, 293, 300, 302, 311, 325,				
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terra cotta	1, 48, 98, 133, 172, 187, 264, 267				
related literature	6, 26, 78, 90, 91, 140, 159, 163, 170, 181				

APPENDIX

DEFINITIONS

maintenance - act or process of limiting deterioration of masonry's appearance or functional performance in an effort to limit the need for repairs.

preservation - act or process of applying measures necessary to sustain the existing form, integrity, and materials of historic masonry. Work focuses upon ongoing maintenance and repair rather than extensive replacement and new construction.

reconstruction - act or process of depicting, by means of new construction, the form and details of non-surviving masonry for the purpose of replicating its appearance at a specific period of time.

rehabilitation - act or process of making masonry useful through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values.

repair - act or process of bringing masonry to an acceptable condition by renewal or replacement of damaged or nonfunctional materials.

restoration - act or process of accurately depicting the form and details of masonry as it appeared at a particular period of time by removal of features from other periods and reconstruction of missing features from the earlier period.

retrofit - act or process of modifying masonry to meet contemporary needs by addition of new materials or components not provided in the original construction The term is typically applied to structural systems.

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