References of Salts in Porous Materials

To support ‘Paula’s Papers’: Salts in Porous Construction and Building Materials

April 2020
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REFERENCES OF SALTS IN POROUS MATERIALS

A set of references is hereby presented to support the three previous ‘Paula’s Papers: Salts in Porous Construction & Building Materials’. If you want to know more about salts, not just within construction materials but in other related building materials (linked to archaeological artefacts, mosaics, wall paintings, sculptures or rock-cut facades), you will find a selection of article reviews, book chapters, reports and guidelines on salt crystallization in porous materials.

1. BOOKS AND CHAPTERS


2. PUBLICATIONS FROM INTERNATIONAL CONFERENCES


3. REPORTS, GUIDELINES AND OTHERS


4. SCIENTIFIC ARTICLES PUBLISHED IN INDEX JOURNALS


Lopez-Arce P, Doehne E, Greenshields J, Benavente D, Young D (2009b) **Treatment of rising damp and salt decay: the historic masonry buildings of Adelaide, South Australia.** Materials and structures 42 (6), 827-848.


5. STANDARD TESTS


BRE DG 245 (2007) rising damp in walls - Diagnosis and treatment. BRE (Building Research Establishment), BRE Press.

BS EN 13919:2002 Natural stone test methods — Determination of resistance to ageing by SO2 action in the presence of humidity.

BS EN 14147:2003 Natural stone test methods — Determination of resistance to ageing by salt mist.

BS EN 12370:2020 Natural stone test methods — Determination of resistance to salt crystallisation.

BS ISO 14993:2018 Corrosion of metals and alloys — Accelerated testing involving cyclic exposure to salt mist, dry and wet conditions.


RILEM (1980) Recommended tests to measure the deterioration of stone and to assess the effectiveness of treatment methods, Test V.1a—crystallization test by total immersion (for untreated stone); Test V.1b—crystallization test by total immersion (for treated stone); Test V.2—crystallization test by partial immersion. Mater Struct 13(75):175–253.
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