

ATTUALITÀ E PROSPETTIVE DI UTILIZZO PER L'EDILIZIA STORICA DI INTONACI INNOVATIVI A FUNZIONE IGROMETRICA-SALINA E A COMPONENTE TERMICA

STEFANO SACRATO*, ALESSANDRO SAMMARTINI ** FRANCESCO TROVO' ***

* ingegnere, libero professionista

** architetto, libero professionista

*** Università Iuav di Venezia

Abstract.

The aim of the contribution is to discuss the characteristics of some products and plasters on the market, with reference to the performance attributable to hygrometric salt control and thermal control. In particular, we report some results of tests and applications of a nano-structured plaster, on the market for some time now, permeable only to water vapour, capable of bringing dissolved salts in the masonry into ionic equilibrium, totally inorganic and aseptic, decreasing their contribution from the foundations and eliminating or mitigating the phenomena of salt crystallisation, which could have a useful use in the context of historical masonry subjected to significant humidity. A research perspective is also hypothesised on the potential of technological plaster packages in terms of thermal control function, in order to reconcile protection requirements with that of improving energy behaviour.

In this area, research is accelerating on the development of new products for historic buildings as an alternative to thick insulation, and the scenario encourages the focus on technological packages of different products and not single-layer solutions.

Keywords: *cultural heritage, refurbishment, restoration, historic buildings, moisture, rising damp, energy efficiency thermal insulation, plasters*