

L'ACQUA SAPONATA COME PROTETTIVO EFFICACE E SOSTENIBILE PER GLI INTONACI. CASI A CONFRONTO

LUCA SCAPPIN

Università IUAV di Venezia, scappin@iuav.it

Abstract

The quality of plaster surfaces, in terms of effectiveness, durability and sustainability, is an objective that is increasingly being addressed in restoration and new construction sites. In the pre-industrial phase, the use of materials and techniques tested for centuries have refined some of the properties of the surface coatings, giving them resistance over time, a quality that has gradually been lost with the introduction of other materials and techniques which aim, instead, to speed up the construction process and obtain apparently compact but rigid and often too impermeable layers. The negative experiences caused by these new materials and by this acceleration of the construction site, which led to a limited duration of the plasters, even less than a decade, especially starting from the second half of the twentieth century, and the recent awareness in terms of sustainability towards environment, is leading to a re-evaluation of the materials, techniques and methods of protection of the past. The increase in the performance of plastered surfaces, especially in the recovery of historical coatings and those of reconstruction in the building of the past, requires including water repellency among the priority quality indicators, which must be considered at the same time as vapor permeability and compatibility with traditional materials. Compared to previous studies, a series of cases of controlled, documented and monitored construction sites allow us to propose further experiences relating to the use of a simple protection technique based on the use of soapy water. The construction sites that are proposed to the attention allow to have a range of situations in which the technique has been put to the test in different situations and even in the most extreme conditions.

Key-words: *plasters, protectives, soapy water, water repellency, quality indicators*