

CARATTERIZZAZIONE MECCANICA E TERMO-FISICA DI INTONACI TRADIZIONALI VENEZIANI

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ABSTRACT

On the basis of the experience gained in analyzing and reproducing the types of plaster referring to the Venetian tradition, an experimentation has begun, with the aim of defining the thermo-physical, radiative and mechanical properties of samples that have been carried out in a recognizable manner in pre-industrial finishes. The samples of plaster were prepared in series and diversified measures, in relation to the type of verification of physical properties, and in order to cover different finishes for the three types of main body, that is with aggregates in sand, or in stone or cocciopesto. The verified physical quantities concern the color, the emissivity, the thermal conductivity, the specific heat, the tensile and compressive mechanical resistances. With this contribution, we intend to propose the results of this first experimentation campaign, that has specifically highlighted the properties of the plasters reproduced with traditional techniques, in order to understand the differences between the types still persisting on the historical surfaces and their advantages in terms of sustainability and durability.

Parole chiave/Key-words: proprietà fisiche intonaci, intonaci tradizionali, protezioni superficiali, conducibilità termica, calore specifico, colore, emissività, resistenza meccanica,