

IL RESTAURO DELLE DECORAZIONI DI PALAZZO BOCCA TREZZA A VERONA. MATERIALI INORGANICI PER IL CONSOLIDAMENTO DELLE SUPERFICI E INTERAZIONI CON GLI INTERVENTI DI CONSOLIDAMENTO STRUTTURALE DELLE VOLTE.

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Abstract:

This paper describes the procedures used for the choice and the selection of the materials and the methods of stabilization of the wall painting and decorative plasterwork present on the vaults of Palazzo Bocca Trezza in Verona.

The decorated surfaces showed complex degradation phenomenon that included extended pulverization and decohesion of the pictorial layer, resulting in the loss of large portions of the decoration. The article depicts the methodological process adopted to evaluate *in situ* the efficacy of the stabilizing products used, through the execution of preliminary comparative tests and investigations pre- and post-interventions. For the wall paintings, the Nanorestore Plus® formula has been identified as the most suitable product, whilst for the stuccoes, the most effective stabilizer is Diammonium phosphate, that represents one of the most interesting materials in the field of stabilization of carbonate matrix natural and artificial lithotypes.

Particular attention was then placed into the intervention of structural reinforcement on the vaults' extrados, on which were employed reduced impact techniques, favoring dry methods as the "RAM - Reinforced Arch Method".

Keywords: *Stabilization of decorated surfaces, Nanoparticles, Calcium hydroxide, Diammonium phosphate, Reinforced Arch Method, Palazzo Bocca Trezza.*