Evaluation Calcium Hydroxide Nano Particle for Consolidation of Mud Brick	عنوان البحث باللغة الانجليزية
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Abstract

The earth structure expose to deterioration factors such as wind which cause erosion of the block's components, several studies have been conducted on the use of traditional consolidats in earthen architecture in order to prolong the mudbrick stability. This study taking the advantages of nanoparticles such as penetration and optimization of the internal cohesive of masonry particles to be applied in Earth structure in Egypt. This study evaluates the use of calcium hydroxide nanoparticles on experimental samples. Various analytical techniques used in the study, scanning electron microscopy and microscopy, Atomic Force Microscope, X-ray Diffraction. The results of the analysis showed that of calcium hydroxide improved the characterization of the studied samples.