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Sublimable layers for protection of painted pottery during desalination. A comparative study	عنوان البحث باللغة الانجليزية
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Abstract

Cyclododecane (CDD) has been used for several years as a temporary consolidant for organic and inorganic materials of interest in cultural heritage. In this work, a comparative study has been conducted with CDD and three other sublimable compounds—menthol, camphene and cyclododecanone—as protectants of water-sensitive paint during the desalination of painted pottery. The experiments include salination, consolidation and desalination, and were conducted on samples newly prepared in the laboratory. Optical microscopy, SEM-EDS, elemental mapping and FTIR data have been used to evaluate the relative efficiencies of the four consolidants. In addition, the relative rates of sublimation of the consolidants from a glass surface have been measured. Although all of the consolidants are able to protect the painted layers, there are distinct differences in efficacy and rates of sublimation that should make some better than others depending on the specific nature of the objects being treated.

