
Preparation of some water soluble polymers for restoration and conservation of antiquities

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to importance of the Egyptian Antiquities as cultural heritage, According and it is very important as economic income, so it must be restore, preserve and keep these Antiquities. In this thesis we had been used three polymers for this purpose. All of them prepared in laboratory (urea formaldehyde sulfonate), (melamine formaldehyde sulfonate) and (melamine urea formaldehyde sulfonate). The urea formaldehyde sulfonate, melamine formaldehyde sulfonate and urea formaldehyde sulfonate used to consolidate wood samples. melamineiteh ine due to Woods used for experimentation were a sycamore and a p p their historical use especially in Egypt. The prepared polymers had confirmed its structures by FT-IR spectroscopy and elemental analysis. The cubic Wood samples had been impregnated in solutions of UFS, MFS and MUFS by different concentrations (3 %, 5 %) and at different impregnation time (0.25, 0.50, 1.0 ...) till 6 hours. The cubic stone samples had been impregnated in solutions of UFS, MFS and My b different concentrations (3 %, 5 %) and at different impregnation time (0.25, 0.50, 1.0 ...) till 6 hours. 96