Abstract

The evaluation of this research is efflorescence deterioration on the layer of chalk, wich was case study on Bekhradi's historical house. Usually white clay has been used for decorationing the architectual designes in the houses of Qajar time period, altough we can inform that there was no evidence or any researches showing that salt soloution were damaging or destroing white clay layers; different parts of this layer has been analyzed under chimical test, that carbonats and organic material like Catira and Paste has been confirmed, after that from white clay and efflorescence XRD analysis has been done, the result of that damage was magnesium sulfate salt. After that aging test was taken because of defrences in the shap of efflorescences, atomic absorbtion test has been done from historical sampels. As per the resulte high quantaty of magnesium sulfate salt and having high invariomental humidity, cause the dissolving of salt and by reducing of that humidity comes trugh the surface and makes crystalization, so with repetitation of that action the defrences of efflorescence justified with aging samples, so the confronting solutions has been taken on the damages by insulating the areas and chalk, we stop the humiditation intrence to that parts.

Key words: Pathology, deterioration, decoration, Efflorescence, Salt crystalation, the Bekhradi'shouse, Haj Rasoliha