

The compatibility between some the materials used in cleaning to improve their effectiveness in cleaning oil paintings

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Abstract:

The study showed that some cleaning materials do not give the effectiveness of its patients in the cleaning efficiency of the spots on the painting when they are applied alone compared to the cleaning compounds that contain a mixture of more than one material and whose effectiveness in cleaning and removing stains significantly. This study examined the compatibility of some cleaning materials to reach compounds that are more effective and help to raise the efficiency rates of cleaning stains from the surface of oil paintings. The researcher has identified some types of cleaning materials that will be used in the study (Gel Voo – Crotex S230 – Vanis). He also performed the necessary examination on the painting in study before starting the cleaning and restoration operations, and the spread of dust stains, soot, fatty stains, acidity, and fungi stains was noted. The previous materials were applied single without adding them to other materials or preparing a mixture between two types of them in cleaning treatments and stain removal. The treatment was repeated three times, which confirmed this method to obtain a better result in cleaning and stains removal. And when applying cleaning compounds that were mixed more than one cleaning substance in varying proportions, it gave a result of cleaning and removing stains more effectiveness and higher quality than its counterparts. The ratios and rates of cleaning for these compounds were from the following (Voor Gel + Lipase Enzyme + Zinc 95% - Crotex S230 85% -Vanis + Gel + Lipase 85%). From here it is clear that the study solves a basic **problem** which is the weakness of the effectiveness of some materials in the efficiency of the processes of cleaning oil paintings when used alone. The **aim** of the study is to achieve compatibility among some cleaning materials to improve the effectiveness and efficiency of oil painting cleaning operations. On the above, the **importance** of research returns in achieving the quality and effectiveness of cleaning operations to maintain oil paintings by maximizing the optimum use of mixing a number of materials by arriving at more effective compounds and efficient. From here we can define the **limits** of the research in achieving the quality and effectiveness of cleaning operations to maintain oil paintings by maximizing the optimal use of mixing a number of materials by arriving at more effective and efficient compounds. The **study methodology** has followed the experimental approach through studying the effectiveness of the application of some modified compounds in cleaning The stains and the dirty appearance, by mixing with some cleaning materials and applying them to the painting of the study

Key Words:

Oil Paintings, Cleaning Components, Lipase, Amylase, Sodium Hydroxide, Polyvinyl Alcohol.