

**ADHESIVES FOR WOOD RESTORATION**

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by

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## **ABSTRACT**

Nowadays, the uses of adhesives are for many industries in Malaysia including the wood industry itself. In wood industries, adhesives are categorized into two types. These are natural adhesives and synthetic adhesive. The ways to choose the right adhesive depends on many characteristics such as manipulation, stability of the adhesive and also its weaknesses. Other than some damage of the wood caused by adhesives, wood is also always exposed to the characteristics of the adhesive itself. The use of technology and on application of experience sometimes helps in this matter but adhesives are among the complex components. Thus, the attempt to discover the damage caused by adhesives was hindered by the complexity of its components.

# CHAPTER ONE

## INTRODUCTION

The role of adhesives in many wooden objects is a critical one for both fabrication and restoration. For that reason understanding the characteristics of adhesives, particularly in the areas of application and manipulation, stability and deterioration, is fundamental to the preservation of most wooden objects. This understanding should be universal for all wooden artifacts, from panel paintings to aircraft, although applications of both process and materials are specific to the artifact being conserved. This paper will provide a brief review of adhesives as they pertain to wooden objects, and the conservation treatment of wooden objects whose element(s) have undergone structural damage, either from fracture of the solid wood or failure of the adhesive system, and the selection and use of adhesives during conservation treatments.

When reviewing the selection, properties, and use of adhesives for wood conservation, it is first necessary to answer the following question - What is the adhesive supposed to do? . Equally important is the converse question - What should the adhesive not do?. Naturally, this inquiry falls within the larger question of the goals and strategies for any particular conservation treatment, which in turn evaluate any ethical constraints on the conservation practitioner, the nature and needs of the artifact, and the users of the artifact.