

Finishing the King's Throne Replica on the Reliefs of the Borobudur Temple Environmentally Friendly Furniture Solutions

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Abstract. Currently, there is a lot of wooden furniture that is finished with non-environmentally friendly materials. This paper provides an environmentally friendly finishing alternative from the interpretation of the King's Throne wood finishing on the reliefs of Borobudur Temple. This throne was the result of reconstruction research that produced a replica. The problem is how to interpret the finishing of the replica of the throne with natural and environmentally friendly materials. Then, we experiment with three replicas of the throne for natural finishing and *unfinishing*. The results are all environmentally friendly and can be applied as natural finishing instead of using chemicals material.

INTRODUCTION

Furniture from wood that is produced nowadays is mostly finished using materials that contain chemicals. Examples of unnatural materials that are used in nowadays furniture such as melanic, polish, wood paint, thinner, and many others. To avoid materials containing dangerous chemicals that can have a health impact on humans, the users could use environmentally friendly materials instead.

METHODS

The method used is reconstructing the throne and interpreting the materials used for finishing the king's throne. Reconstruction is returning to its original state with the same or different materials. The interpretation of finishing is coating the throne with natural materials such as plants or other materials or even without any coating (*unfinishing*). Natural layers are interpreted from natural materials that were used during the construction of the 8th century Borobudur Temple.



The process of reconstruction the King's Throne

RESULTS AND DISCUSSION

In the case of the reconstruction of the throne, we restore the appearance of a two-dimensional throne in the form of Borobudur Temple's relief into a three-dimensional form. The steps taken are reconstructing visually by making a three-dimensional perspective sketch. Interpret the materials that were used and the dimensions of the throne. Next, we made a finished shape of the throne in the form of a replica. Three replicas of the throne were made to match the finishing interpretation. The interpretation of the completion of the replica is as follows; Natural finishing by using natural plant colors. *Unfinishing* of the wood is not colored with any material or left as it is, just made as smooth as possible. *Sungging* uses natural materials by the concept of four colors of Javanese culture: white, red, yellow, and black.



The Reconstruction of the King's Throne without finishing



Natural finishing color choice

CONCLUSION

The use of natural materials for finishing the wooden furniture are all environmentally friendly and can be used as an alternative or substitute for finishing the wooden furniture nowadays which is currently dominated by chemicals materials.