# MATERIALS FOR FINISHING AND LATEST TECHNOLOGIES IN FURNITURE FINISHING

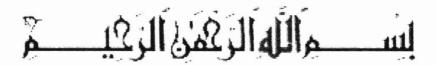
### By

## NORAZUIN BINTI ABDUL SANI

Final Project Submitted in Partial Fulfillment
Diploma in Wood Industry,
Faculty of Applied Science,
Universiti Teknologi Mara,
Pahang Darul Makmur

April 2007

#### **ACKNOWLEDGEDMENTS**



Thanks to Allah SWT, the most gracious and the most merciful and He is also the most powerful that arrange all the thing included give to me an opportunity to write my final project paper about "Materials for Finishing and Latest Technologies in Furniture Finishing". Based with this opportunity I can make a deep research about the general material applied for finishing and the latest technologies of equipment in furniture finishing in order to ensure that the material applied to the furniture is match with the equipment uses for produce the good quality of product will giving high profit.

Here, I also like to take this opportunity to wish very thanks to all my lecture that was guide and give me a lot of knowledge in order to ensure their student will success in their life. Beside that, I also want to thank to my wisely advisor, Mrs. Norhafizah binti Rosman and Prof. Madya Dr. Jamaludin bin Kasim because can spend lots of their times to give guild and support. Beside that, thank a lot to our head of programmed, Miss. Mazlin binti Hj, Kusin because give her moral support to me to finish my final project paper. Furthermore, I wish a lot of thank to all my classmate, all my roommate and all my friend because they are also involved in helping me to finish my project paper..... Alhamdulilah.

## TABLE OF CONTENT

DEDICATION	iv
ACKNOWLEDGEMENT	v
LIST OF CONTENT	vi
LIST OF FIGURES	vii
LIST OF PLATES	ix
LIST OF TABLE	X
LIST OF APPENDIX.	xi
ABSTRACT	xii
ABSTRAK	xiii
CHAPTER 1: INTRODUCTION	
1.1 General Breakdown	1
CHAPTER 2: FURNITURE FINISHING MATERIAL	
2.1 Evaporative Finishes	
2.1.1 Shellac.	4
2.1.1.1 Types of Shellac	5
2.1.1.2 Advantage and Disadvantage.	5
2.1.2 Lacquer	6
2.1.2.1 Types of Lacquer.	7
2.1.2.2 Advantage and Disadvantage.	9
2.1.3 Water-base Finishes	9
2.1.3.1 Types of Water-base	11
2.1.3.2 Advantage and Disadvantage	12

2.2 Reactive Finishes	
2.2.1 Varnish.	12
2.2.1.1 Type of Varnishes.	13
2.2.1.2 Advantage and Disadvantage	14
2.2.2 Oil	14
2.2.2.1 Types of Oil Finishes.	16
2.2.2.2 Advantage and Disadvantage	19
2.3 Others	
2.3.1 Ultraviolet Wood Finishing.	19
2.3.1.1 Types of UV-Curable Coatings	20
2.3.1.2 Advantage and Disadvantages	24
CHAPTER 3: THE LATEST TECHNOLOGY USE IN FINISHING FURNITURE	
3.1 Air-Assisted Electrostatic Spraying.	25
3.2 Air-Assist Airless Spraying.	28
3.3 High-Volume/ Low-Pressure (HVLP)	30
3.4 Laser Paint.	34
3.5 Dip Coating	36
3.6 Roll Coating.	37
CHAPTER 4: CONCLUSION	
Conclusion	43
REFERENCES	45
APPENDIX	47

## MATERIALS FOR FINISHING AND LATEST TECHNOLOGIES IN FURNITURE FINISHING

BY

### NORAZUIN BINTI ABDUL SANI

**APRIL 2007** 

#### ABTRACT

The finish of wooden furniture is the fundamental important in the furniture making process. The first that the customers see of the piece of the furniture that he is going to buy is the external aspect which it strictly link to the quality of finishes. So for good presentation of products, finishes are foremost importance. With good quality finished it is possible sometimes to cover damages and imperfection due to the production phases. There are a lot of materials that can be use as finishing. All this types of material are difference in their properties and have their advantage, disadvantage and their special requirement needs. A good craftsman must know types of material should they use in order to produce a good quality product. Usually in industry, they use several equipment in order to produce large quantity of product. All this equipment help manufacturer to applied finishing material to product with low cost but high quality and quantity.