

**WATER-BORNE PRESERVATIVES: CCA**

**By**

**MOHD ABDUL FATAH BIN MUSTAFA**

**Final Project Submitted in Partial Fulfillment for the Diploma in Wood Industry,  
Faculty of Applied Science,  
Universiti Teknologi MARA,  
Pahang Darul Makmur**

**March 2005**

## ACKNOWLEDGEMENT

Bismillahirrahmannirrahim...

First and foremost, I would like to thank to God, the Almighty Allah S.W.T as the permission given I had finally finish my project paper," Water Borne Preservatives: CCA" and submitted to the due date.

A million of thanks to my project advisor Professor Hj. Abdul Jalil bin Ahmad also called Pak AJ for his very big support in my project paper. He gives me a lot of information and help. Also to my coordinator En.Wan Mohd Nazri bin Wan Abdul Rahman and all the lecturer, thanks for the kindness and support.

Lastly very big thanks to all of my friends, thanks for your support and cooperation given.

I'm also extending my appreciation to those who are involved either directly or indirectly in making this project, only Allah can repay their kindness.

# TABLE OF CONTENT

	Page
APPROVAL SHEET.....	i
DEDICATION.....	ii
ACKNOWLEDGEMENT.....	iii
LIST OF TABLES.....	v
LIST OF PLATES.....	vi
LIST OF FIGURE.....	vii
ABSTRACT.....	viii
ABSTRAK.....	ix
 <b>CHAPTER</b>	
<b>1 INTRODUCTION</b>	
1.1 General.....	1
1.2 Objectives.....	3
<b>2 LITERATURE REVIEW</b>	
2.1 Wood Preservatives chemical.....	4
2.2 New Types of preservatives.....	5
2.3 Other available products.....	6
2.4 What is CCA treated wood.....	7
<b>3 POTENTIAL OF CCA</b>	
3.1 CCA information.....	10
3.2 Comparison of the new preservatives.....	11
3.3 Supplemental guidance on revised Chromated Copper Arsenic (CCA) Wood preservatives label.....	14
3.4 Exporting and importing of CCA.....	16
3.5 Uses of CCA.....	20
3.6 Process.....	32
3.7 Guidance for Uses of Chromated Copper Arsenate (CCA) AWPA Commodity Standards.....	35
<b>4 CONCLUSION AND RECOMMENDATION</b>	
4.1 Conclusion.....	51
4.2 Recommendation.....	51
<b>REFERENCES.....</b>	<b>52</b>
<b>VITA.....</b>	<b>54</b>

## LIST OF TABLE

<b>Table</b>		<b>Page</b>
1.	Composition of CCA-Type A, B and C	9
2.	Retention requirements for CCA-Treated Wood	9
3.	Leading preservatives type and popular brand name available to date	11
4.	2003 Edition, AWWA Standards, U1-03 Use Category System, Section 3 Guide to Treated Wood.	35

# **WATER-BORNE PRESERVATIVES: CCA**

**By:**

**MOHD ABDUL FATAH BIN MUSTAFA**

**March 2005**

## **ABSTRACT**

In this study, CCA as one of the popular preservative has been chosen. It has been used enormously throughout the world. It has been used since 19 century and commercially in wood industry through preservation process. It is an effective wood preservative. The effectiveness of CCA has been studied from many method and test. But it is not enough and practical. So many observation and analysis has been made through it experience of services. Also in my study the standard method that has been done is also available. So in this project it contains the accumulation of the important of CCA as wood preservatives.