

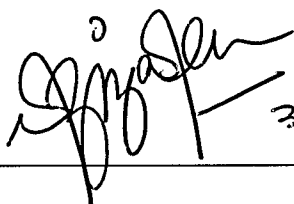
**THERMAL CONDUCTIVITY OF ALUMINIUM COATED WITH
POLYOL DAMAR TITANIUM DIOXIDE AND SEALFAS.**

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**Final Year Project Proposal Submitted in
Partial Fulfilment of the Requirement for the
Bachelor of Science (Hons.) Physics
Faculty of Applied Sciences
Universiti Teknologi MARA**

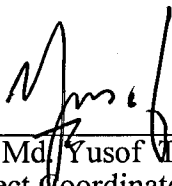
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This Final Year Project Report entitled "Thermal Conductivity Of Aluminium Coated With Polyol Damar Titanium Dioxide And Sealfas Coating" was submitted by Muadz Bin Mohd Sofi, in partial fulfillment of the requirements for Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Sciences, and was approved by



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ABSTRACT

THERMAL CONDUCTIVITY OF ALUMINIUM COATED WITH POLYOL DAMAR TITANIUM DIOXIDE AND SEALFAS COATING

This was ~~the~~ study of characteristic of well known Sealfas coating and experimental Polyol Damar Titanium Dioxide, the characteristic of the coating are scope into thermal conductivity of the coating. And the Sealfas coating are used as control coating in this study, in order to study the effectiveness of experimental coating the established and already used coating in industry are needed. In another coating, the manipulated variables are percentage of Titanium Dioxide.

CHAPTER 1

INTRODUCTION

1.1 Background

Nowadays there are many coating material in our daily life. The application of coating material can be found at many fields such as at public user, military, industry, aerospace and other. The simple applications of coating material are at computer, television, car, refrigerator and pan.

The studies of coating material are very important in this modern day. Because of that the use of coating material are very important in military such as in ship building. In order to solve the effect of the corrosion, fungi, heat and others natural causes. There are many types of coating which are used in developing or maintaining the ship.

Coating material is defined as a material which is applied to the surface and appears as a continuous or discontinuous thin film after drying. In industries the paint, adhesive, coating and inks are related. These materials are generally based on the same raw material component. The product may be composed of four categories of raw material which is resin, solvent, pigment and additives.

Sealfas coating is the common coating that used in the surface of the insulator, this type of coating works as a thermal barrier to prevent the conduction of the heat. This coating is used