

ABSTRACT

This project is on the production of paint from the available materials. The first process involved was the sourcing of the available material which include calcium carbonate (dotonute) water etc. the next step is the proper production procedure. The same product patterns was employed while the production was valued with a view to obtain a high quality paint.

From the result obtained, it was observed that high quality paint was produced in production category C(3), consisting of 10kg water, 0.1kg titanium dioxide (TiO₂), 0.3kg teranol, 0-3 ethyleneglycol 0.3kg wetting agent, 0.1kg defrayer, 0.2kg thickness 10kg CaCO₃, 4kg PVA, 2kg NH₃ and 0.5kg white spirit.

The above fact was ascertained by subjecting the various paint produced from different production procedure to quality control test. The quality of this paint in production category C(3) was, opacity 2 coat, PH 8, drying time 1 hour, chalking 190 cycle scrubs, PVA 20%, viscosity 3.8 poises and binder gravity 1.17 and its quality marched with the Standard Organization of Nigeria (SON) approved quality.

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CHAPTER ONE

1.0 INTRODUCTION

Until recently, paint production was regarded as art, and use was made of it principally for decorative purposes. The production then was by trial and error with no standard principle and little or no regard to the quality of the final product. With the application of science in the production of paint, product of high quality is now possible. This time, not only to give appearance but more importantly for surface protection. Thus, modern paint industry firm a small but important part of the chemical industry. It is closely related to the plastics, and petroleum industries and like then is based on modern knowledge of chemistry, physical and engineering.

THE PURPOSE OF THE PROJECT RESEARCH WORK

The purpose of this work is to make use of available source materials in the production of Emulsion Paint, test the properties of the paint and its performance against weather, and thus set a standard for future works.

THE SCOPE OF PROJECT RESEARCH

Paints is classified according to its application and functions ie.

Varishers, leaguers, fillers etc. Emulsion paint which is a water based paint is principally used for external and internal surface coatings, mostly in building for appearance and as a surface protector. Apart from their protective action, varnishers, and leaguers increase the protective action of manufactured goods.

The process involved in paint production, qualities and performances of emulsion paint in particular are largely dependent on the properties of its constituents and the ratios of these constitutions include pigments, pigment extenders, additives and vehicles. Failure to make proper formulation before production causes deterioration and film degradation. Emulsion paint production from available materials must meet the present need for a high standard of performance so as to cater satisfactorily for the needs of the society, at a particular point in time and to demonstrate a credible record of an ability to challenge external and future influences.

PRODUCTION OF EMULSION PAINT WITH THE AVAILABLE MATERIAL

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

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Regards!!!