



FORMULATION OF GLASSY EMULSION PAINT

ABSTRACT

Glassy-emulsion paint was prepared using the formulation: pigment dispersion (20g), PVAc (40g), Glycol (5g), Toluene (5g) and Diethylene (5g). It was found that not only is glassy achieved using these formulations but also for maximum effects, the paint should be produced as low CPVC, high degree of pigment dispersion and enough quantity of alkyl resin incorporated. A simple designed and fabricated device used in this measurement can called Luminometer, a type of Luminometer that was used to monitor surface glossiness. This process to be reliable and handy.

Keywords: Glassy-emulsion, Toluene, Diethylene, PVAc, CPVC, Glycol and Paint.

INTRODUCTION

The surface of many object outside in the air and are damaged by the effect of weather and were often protected and taken care of. For example, iron roofs and steel structures in the atmosphere [1]. As many materials become available, the need to modify the surface continues to grow [2]. Many surfaces widely believed to be satisfactory without coating are actually attacked by weather, chemicals, atmospheric pollution or other factors and must be protected before certain uses. The wide variety of surfaces which must be protected and decorated has given rise to an infinite number of coating agents such as paints and varnishes not only to protect such surfaces but also to decorate them [3]. To embellish the surface an application and provides colour to it.

In the present investigation, the pigment system was basic titanium dioxide and calcium carbonate at a weight ratio of 3:1 respectively. Polyvinyl acetate and alkyl resin were used as binders. In number of cases, the gloss of paint has deteriorated properly.

This research investigates ways in which glassy emulsion paints can be enhanced. The present investigation was limited to testing the effects of degree of dispersion of pigment, degree of dryness of film and optical properties of binder on the gloss of formed glassy-emulsion paint.

Emulsion paints are not glossy enough for certain applications. The low degree of glassy-emulsion paints precludes its use in a number of applications. Therefore this project investigates ways in which the gloss of emulsion paints can be enhanced.

Factors that could affect the gloss of emulsion paints includes:

- (i) The degree of dispersion of pigmental used,
- (ii) The optical properties of binders, that is, light reflecting, refracting and scattering properties,
- (iii) The degree of dryness of film,
- (iv) The pigment: binder ratio.

The present investigation has involved valuable technical information about emulsion paint based on titanium dioxide/calcium carbonate and poly vinyl acetate.

1. The CPVC at a maximum binder: calcium carbonate ratio of 1:1 is 0.062 (6.2%).
2. As PVC values below the CPVC of 0.062 (6.2%), the gloss increases as the PVC is lowered.
3. The degree of dispersion varies with time of dispersion and influences the gloss of the paint. For time of dispersion varying from 30 minutes to 120 minutes, the gloss increases from 7.5 to 11.5 g/s.
4. Drying of film under a particular condition continues for 3 days with accompanying increase in gloss ranging from 5.5 to 9.5 g/s.
5. Incorporation of alkyl resin into polyvinyl acetate increases the gloss if both are used as binder.

Paint manufacturing involves bringing pigment particles and binders into close contacts to achieve thorough dispersion of the particles throughout the binder. Dispersion is the most important operation in paint factories, the remainder of plant operations are based on it. The degree of dispersion will depend on the type of paint manufactured and on the formulation and nature of the equipment used handle.

Paints are made up of three basic components as follows:

PIGMENT: The purpose of the pigment, from a decorative stand point is to embellish the surface over which the product is applied and

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