



CAVITE STATE UNIVERSITY

Drop Sealing by Surface

DRYING OF PAINTS

• The drying of a paint film is a complex process involving the evaporation of solvents, the oxidation of oil-based paints, and the cross-linking of polymer chains.

FACTORS AFFECTING DRYING

• The rate of drying is influenced by several factors, including the type of paint, the thickness of the film, the ambient temperature, and the relative humidity.

• The drying process can be divided into three stages: the initial drying stage, the intermediate drying stage, and the final drying stage.

• The initial drying stage is characterized by the rapid evaporation of solvents, which causes the paint film to shrink and become more rigid.

• The intermediate drying stage is characterized by the gradual oxidation of the oil-based components, which leads to the formation of a cross-linked network.

• The final drying stage is characterized by the complete cross-linking of the polymer chains, resulting in a hard, durable film.

• The drying process is affected by the presence of dust and other contaminants, which can interfere with the formation of a uniform film.

• The drying process is also affected by the surface on which the paint is applied, as different surfaces have different thermal conductivities and porosities.

• The drying process is a complex process that involves the interaction of physical and chemical processes.

• The drying process is a critical step in the application of paints, and it is essential to understand the factors that affect it in order to achieve the best results.

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