

Application Process

Application process of coating:

A coating application process involves preparing the substrate, applying a liquid or powdered coating material using methods like spraying, dipping, rolling, or electrostatic deposition, and solidifying the coating through curing, baking, cooling, or solvent evaporation to enhance the substrate's properties. The specific process varies significantly based on the materials, equipment, and desired finish.

Key Steps in a General Coating Process

Substrate Preparation: Thoroughly clean the surface to remove contaminants like dirt, oil, or rust, which can affect adhesion and finish quality.

Application: Apply the coating material evenly to the prepared substrate.

Solidification: Allow the coating to solidify, often through processes like baking, air-drying, or UV light exposure.

Post-Treatment (Optional): Perform additional steps such as polishing, buffing, or applying protective layers for enhanced gloss or durability.

Dispersing and milling

The Dispersion process

Mixer & Stirrer	Vibrator/Shaker	Roller mill
Gyroscopic mixer	Turbomixer	Dual Asymmetric Centrifugal Mixers

Surface treatment

Sandblaster	Ultrasonic cleaner	Acid wash & Alkaline wash
Corona machine	Plasma machine	
Surface tension & Corona treatment	Introduction	

Coating Methods

Liquid Spray	Powder Spray	Spin Coating Slides
Dip Coating	Bar Coating	Roll coating
Electroplating	Slit die coating	Ink-jet print
Casting film	PVD&CVD	

Drying/Curing process

Thermal Curing	UV curing	
----------------	-----------	--