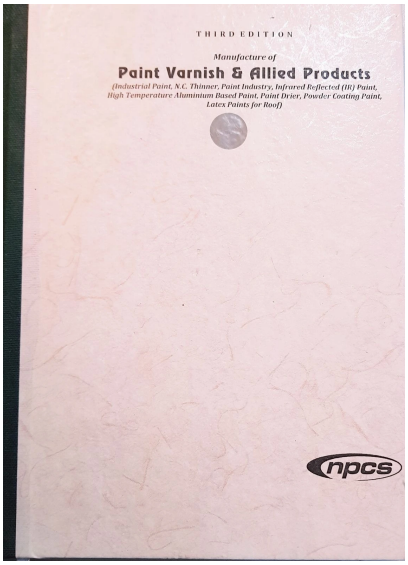
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Manufacture of Paint, Varnish & Allied Products (3rd Revised Edition)

Code	NI25
Format	hardcover
Indian Price	₹1995
US Price	$200
Pages	138
ISBN	9788195577576
Publisher	NIIR PROJECT CONSULTANCY SERVICES

Description

Manufacture of
Paint Varnish & Allied Products
(Industrial Paint, N.C. Thinner, Paint Industry, Infrared Reflected (IR) Paint, High Temperature Aluminium Based Paint, Paint Drier, Powder Coating Paint, Latex Paints for Roof)
Varnishes are organic solvent-based solutions of natural or manmade resins that dry when applied thinly to a surface. The dried films are firm and translucent in appearance. The films have varied degrees of gloss, protective ability, flexibility, and durability depending on the solution's composition.
Varnishing materials are as varied as the many paint media and techniques used throughout the history of painting. The advantages of applying a transparent resin as a final surface coating were discovered in Antiquity; waxes, for example, have been discovered on the surfaces of ancient wall murals. By the early Renaissance, a number of materials, ranging from egg white to resin, had been produced for use as painting varnishes. Tree resins (mastic and dammar), fossil resins (copal), and insect excretions (shellac) became the most common materials used as varnishes over time.
Artists and restorers still use many of these natural materials today. There have also been numerous synthetic varnishes made that provide a wide range of surface properties. Synthetic varnishes have gained popularity, however they differ from natural varnishes in terms of qualities.
Varnishes should be removable so that the underlying surface can be cleaned without being damaged. By allowing the painting to be solubilized and removed, along with any surface pollution, the use of a removable varnish provides a vital tool to anyone wanting to restore or clean the painting. The varnish must be flexible enough to flow with the painting surface while still being firm enough to prevent grime and dust from adhering to the surface by giving a non-tacky surface. It must be made with the appropriate porosity to either allow moisture to pass through or provide a moisture barrier, depending on the substrate and weather circumstances. It should be resistant to chemicals and water. Over time it should resist discoloration caused by factors like humidity, heat and visible and ultra violet (UV) light sources. Finally, the varnish must possess excellent clarity, without discoloration or fogging.
The global paints and coatings market is expected growth rate (CAGR) of 8.5%. There is a rapid growth in consumption of paints and coatings in many industries. Paints and coatings are widely used in the automotive, construction and manufacturing industries. Biocides are being used in paints to enhance their longevity and to maintain their quality. Biocide additives have been designed to protect paints from getting damaged during storage or to keep fungi and algae from growing on the applied paints. The market for biocides in paints will continue to grow due to the switch from solvent based to water based paints as they are not hazardous for human health and

environment, and minimize fungal and algae growth. However, replacement of traditional biocides based on chlorine and formaldehyde with environmentally friendly biocides add to the costs of paint production.

Construction, automotive and transportation, and the wood sectors all employ paints and coatings. They have a significant application in the building and construction business, where they are used to protect structures from harm from the outside. In addition, the product is used to decorate residential and non-residential infrastructures and buildings, industrial equipment, vehicle and marine, industrial wood, and other applications. The materials are widely used in diverse applications, owing to their properties such as protection from environmental factors, corrosion protection, reflection-absorption, anti-friction, and hardness.

High-tech coatings that comprise cationic electrocoating ingredients are becoming more popular, as they protect multifarious metal objects against corrosion by covering all the corners and crevices. High-performance ceramic extends the life of aircraft turbine engines and automobile engines. It primarily serves to safeguard components against high temperatures, wear, and corrosion.

This industry's growth has led to huge product demand in other applications such as residential and commercial construction. Furthermore, these products also gain momentum due to applications such as automotive & transportation, wood, coils, and industrial metals that will lead to an upsurge in the global market.

Based on application, the market is categorized into architectural, automotive OEM, marine, coil, general industries, protective coatings, automotive refinish, industrial wood, and others. Amongst these applications, the architectural segment is expected to remain dominant in terms of revenue and volume during the forecast period. In architectural applications, coatings and paints are mainly used for decorative purposes for residential and non-residential structures to protect them from environmental harm, UV radiation, and others. Increasing use of these materials in diverse industries such as construction and automotive is expected to fuel this market's growth.

High demand for paints and coatings in the automotive industry, owing to its color stability, continuous protective film formation, corrosion resistance, abrasion and scratch resistance, flexibility, and durability, will boost the market prospects.

The growth in coil segments can be linked to the high production of sheets of various materials such as polymers, steel, and copper. Coils are used in semiconductors, household wires, cables, automotive, building & construction, etc.

The book covers a wide range of topics connected to Industrial Paint, N.C. Thinner, Paint Industry, Infrared Reflected (IR) Paint, High Temperature Aluminium Based Paint, Paint Drier, Powder Coating Paint, Latex Paints for Roof, BIS Specifications, as well as their manufacturing processes and plant economics.

A thorough guide on Paint Varnish & Allied Products manufacture and entrepreneurship. This book is a one-stop shop for everything you need to know about the Paint Varnish & Allied Products, which is ripe with opportunity for producers,

merchants, and entrepreneurs. This is the only book that covers the process of making commercial Paint Varnish & Allied Products. From concept through equipment procurement, it is a veritable feast of how-to information.

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About Niir

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and/or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directories, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists, and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureaus, consultants and consultancy firms as one of the inputs in their research.