Paints, Varnishes and Resins Testing
(Solvents, Plasticizers, Cellulosics, Natural Resins, Driers and Metallic Soaps, Synthetic Resins, Paint for Electrocoating, Paint for Marine Environment, Traffic Paint, Bituminous Coatings, Waxes and Polishes, Architectural Paint)
Paint is any liquid, liquefiable, or mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture to objects. Paint can be made or purchased in many colors—and in many different types, such as watercolor, synthetic, etc. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid.
Varnish is a transparent, hard, protective finish or film that is primarily used in wood finishing but also for other materials. Varnish is traditionally a combination of a drying oil, a resin, and a thinner or solvent. Varnish finishes are usually glossy but may be designed to produce satin or semi-gloss sheens by the addition of "flatting" agents. Varnish has little or no color, is transparent, and has no added pigment, as opposed to paints or wood stains, which contain pigment and generally range from opaque to translucent.
Varnishes are also applied over wood stains as a final step to achieve a film for gloss and protection. Some products are marketed as a combined stain and varnish.

In polymer chemistry and materials science, resin is a "solid or highly viscous substance" of plant or synthetic origin that is typically convertible into polymers.
They are often mixtures of organic compounds, principally terpenes. Many plants, particularly woody plants, produce resin in response to injury. The resin acts as a bandage protecting the plant from invading insects and pathogens.
Market Outlook

Indian paint market is expected to reach 49,545 INR Crs by 2016 - 17, decorative market will continue to grow and would have higher share compared to industrial paints.

The paints & coatings market is projected to reach USD 209.36 billion by 2022, at a CAGR of 5.45% between 2017 and 2022.
The market growth in recent years can be attributed to the increased demand for paints & coatings in the Asia-Pacific region. Global demand for paint and coatings is forecast to rise 5.2 % per year to 51.6 million metric tons in 2017, valued at USD 186 billion.
Global Production of Paints and Coatings
The Paint market is projected to grow from USD 160.54 Billion in 2017 to USD 209.36 Billion by 2022, at a CAGR of 5.45% during the forecast period.
1. BIOLOGICAL DETERIORATION OF PAINTS AND PAINT FILMS

2. WEATHERING TESTS NATURAL WEATHERING

Gloss, Chalking, and Erosion, Checking and Cracking, Flaking, Scaling, and Peeling, Integrity Protection, Dirt and Mold (mildew), Rust and Metal Stain, Color Retention (fading, darkening, and yellowing), Moisture Blistering of Paint on Wood, Detecting Rainfall and Dew, "Washing" of Paints, Recording Weathering Tests, Scheifele Summary, Nomographs for Rating Weathering,
3. ARTIFICIAL WEATHERING

ASTM Artificial Weathering Procedures, Actinic Values, Intensified Tests, Photochemical Embrittlement Test, Ozonization Test, Lightfastness of Pigments, Thin Substrates Corrosion Test, High Frequency Tide Range Test, Sudden Chill Test

4. ATMOSPHERIC POLLUTANTS

Source of Pollutants, Regulations, Analytical Methods, Smog Chambers
5. SPECIFIC PRODUCTS TESTS ON VARNISHES

- Introduction, Test on Liquid Varnish, Appearance, Color, Viscosity, Viscosity Control During Manufacture, Nonvolatile Content, General Method, Method Flash Point A, Resin Solutions, Density (specific gravity), Elasticity (toughness), Linseed Oil Addition, Predicting Kauri Reduction, Leafing Test, Spatula Test, Beaker Test, Skinning, Reactivity, Acid Value, Alkali Increase Test, ASTM Reactivity Test, Rosin Content, Drying Time, Tests on Dry Films,
Film Irregularities, Bell Jar Test, Oven (cabinet test), Smokey Joe Oven, Rogers Test, Draft Test, Resistance to Selflifting, Rubbing Property, Hardness and Abrasion Resistance, Plasticizer Migration, Temperature Change Resistance (cold check test), Tests on Clear Floor Sealers, Specimens, Appearance, Resistance to Ink Stain, Restoration of Worn Areas, Finishing with Other Coatings, Tests on Shellac Varnish, Color, Drying Time, Nonvolatile Content
6. ARCHITECTURAL PAINT

7. CEMENT BASE PAINT AND THE PAINTING OF MASONARY

8. WAXES AND POLISHES

9. PUTTY, GLAZING COMPOUNDS, CAULKING, COMPOUND AND SEALANTS

- Introduction, Definitions, Working Properties, Subjective Test for Knife Compounds, Cone Penetrometer for Consistency, Mobilometer for Consistency, Sandwich Squeeze for Consistency, Brookfield Viscometer for Consistency, Extrudability with Caulking Gun, Extrusion Rhcometer, Shearing Adhesiveness, Rheological Properties, Leveling Test, Sag (slump) Test, Tack-Free Time, Shrinkage, Apparatus, Procedure, Cohesiveness, Tensile Adhesiveness (cohesion), Tenacity,
10. TILE LIKE COATINGS AND SEAMLESS FLOOR TESTING

- Introduction, Tile-like Coatings, Applicable Specifications, Adhesion Tests, Evans Adhesion Test, Resistance to Alkaline Peeling (Evans Method), Dowel Test for Adhesion, Elcometer Test for Adhesion, Ability to Smooth Concrete Block, Gloss Readings on Rough Surfaces, Smoothness (holdout), Color Retention, Effect of High Humidity on Color Retention, Fungus Resistance, Stain and Chemical Resistance: Washability, Staining,
11. BITUMINOUS COATINGS

- Definitions, Identification of Bituminous Materials, Solubility in Carbon Disulfide, Differentiating Asphalt and Coal Tar, Oliensis Spot Test, Tests on Solid and Semisolid Bituminous Materials, Penetration, Softening Point, Ductility, Softening Point Drift and Flow, Oliensis Contact Compatibility Test, Tests on Solvent-Thinned Cut-Back Coatings, Uniformity, Consistency, Flash Point, Nonvolatile Content, Distillation, Water Content, Asphalt Content, Filler Content, Aluminum Content of Roof Coatings, Roof Coatings Setting Test,
12. TRAFFIC PAINT

13. PAINT FOR MARINE ENVIRONMENT

14. PAINT FOR ELECTROCOATING

15. ANALYSIS OF WHOLE PAINT

- Sampling, Separations and identification of Binder and Solvent, Sampling, General Precautions and Suggestions, Procedure, Preliminary Tests on Whole Faint, Nonvolatile Content by Weight, Nonvolatile Content by Volume, Pigment Content, Water Content, Flash Point, Separation of Pigment, Separation of Vehicle, Identification of Binder, Solvent Based Paints and Lacquers, Water Based Paints, Separation of Solvent, Identification of Solvent
16. CHEMICAL ANALYSIS OF PIGMENTS

- Sampling, Purity of Reagents and Water, Some Common Properties, Moisture Content, Loss on Ignition and Ash, Matter Soluble in Water, Hydrogen Ion Concentration, Alkalinity or Acidity, Single White Pigments, Titanium Dioxide and Titanium-Calcium, Titanium, Alumina, Silica, Lead, Carbon Dioxide, Carbon Dioxide and Combined Water, Lead Carbonate, Matter insoluble in Acetic Acid, Impurities Other Than Moisture, Sulfate, Basic Lead Oxide, Impurities, Basic Silicate White Lead, Tribasic Lead Phosphosilicate, Moisture, Water of Hydration,
Silica, Lead, Phosphorus as P2O5, Zinc, Sulfur, Lead, Zinc, Sulfur, Zinc Oxide, Zinc Sulfide, Barium Sulfate, Titanium Dioxide, Antimony Oxide, Antimonous Oxide, Total Oxide, Matter Soluble in Hydrochloric Acid, Silica, Aluminum Oxide, Alumina and Iron Oxide, Calcium Oxide, Magnesium Oxide, Mica, Calcium Carbonate, Calcium Oxide, Calcium Sulfate, Free Water, Combined Water, Matter Insoluble in HCl, Barium Sulfate, Ferric Oxide, Free Silica, Mixed White Pigments Extracted from Paint, Moisture, Loss on Ignition, Acidity or Alkalinity, Matter Insoluble in Hydrochloric Acid, Total Lead,
Lead Titanate, Aluminum Oxide, Zinc Oxide, Soluble Barium, Calcium, Magnesium, Total Soluble Sulfur, Sulfide Sulfure, Carbon Dioxide, Soluble Sulfate, Sulfur Dioxide, Black Pigments, Bone Black, Carbon Black, and Lampblack, Identification, Acetone Extract, Carbon and Insoluble Mineral Matter, Synthetic Black Iron Oxide, Identification Ferrous Iron Oxide, Metallic Pigments, Aluminum, Qualitative Analysis, Fatty and Oily Matter, Metallic Zinc, Zinc Oxide, Calcium as Calcium Oxide, Lead Cadmium, and Iron, Chlorine, Sulfur, Blue pigments, Iron Blue,
Identification, Moisture, Water-Soluble Matter, Acid Insoluble Extenders, Acid-soluble Extenders, Organic Colors and Lakes, Copper Phthalocyanine Blue, Identification, Basic Dye Derivatives, Other Organic Coloring Matter, Ultramarine Blue, Iron Blue, Yellow, orange, and green pigments containing lead chromate and chromium oxide green, Chrome Yellow, Chrome Orange, and Molybdate Orange, Preparation of Samples, Lead Chromate, Total Lead, Total Sulfate, Molybdenum, Extenders, Lead, Chromium Trioxide, Silica, Lead Chromate, Barium Sulfate and Insoluble Siliceous Material, Sulfate, Calcium Oxide, Yellow, orange,
and brown pigments containing strontium chromate and zinc chromate, Strontium Chromate, Moisture and Other Volatile Matter Strontium, Chromium, Chloride, Sulfate, Zinc Yellow (zinc chromate yellow), Combined Water, Aliquots for Tests, Chromium, Alkaline Salts, Matter Insoluble in Acetic Acid, Yellow, orange, red, and brown pigments containing iron and manganese, Iron Oxide, Calcium Compounds, Calcium Carbonate (in Venetian Red), Sulfates Soluble in Hydrochloric Acid, Qualitative Test for Lead Chromate in Ochre, Manganese (in sienna and umber), Other red pigments, Cuprous Oxide (antifouling) and Other Copper Pigments, Special Precautions for Sample Treatment, Total Copper,
Total Reducing Power as Cuprous Oxide, Metallic Copper, Cuprous Oxide, Cupric Oxide, Metals Other than Copper, Chlorides and Sulfates, Acetone-Soluble Matter, Dry Red Lead, Total Lead and Insoluble Matter, Lead Peroxide and True Red Lead, Zinc, Total Silica, Carbon Dioxide, Soluble Sulfate (other than barium sulfate), Iron Oxide, Dry Mercuric Oxide Ash, Free Mercury, Total Mercury, Organic Pigments and Colorants, Solubility in Chloroform, Qualitative Test for Identity and Purity, Resistance to Acids and Alkalis, Henlein Color Identification Chart
17. SYNTHETIC RESINS

- General Methods of Resin Identification, Chemical Methods, Spectrometric Methods, Alkyd and Polyester Resins, Identification by Chemical Methods, Identification by Spectrometric Methods, Carboxylic Acids, Phthalic anhydride, Procedure, Reagents, Modification for Lacquers, Gas-Liquid Chromatographic Method, Equipment and Conditions, Reagent, Procedure, Isophthalic, terephthalic, and benzoic acids, Chlorendic acid, Apparatus, Reagents, Maleic, adipic, and other acids in polyesters, Equipment and Conditions, Reagents, Fatty Acids,
Polyhydric Alcohols, Rosin and Ester Gum Modified Alkyd, Styrene-Modified Alkyds, Equipment and Conditions, Urea-Formaldehyde (UF) Modified Alkyds, Apparatus, Calculation-UF in Alkyd-UF-MF Blends, Calculation-Phthalic Anhydride Content, MF and BF Modified Alkyds, Other Resin Modifications, Gibb's Test, Nitrite Test, Para-phenylphenol-Formaldehyde Test, Procedure, Spectrometric Determination of Phthalate, Other Analytical Tests, Cellulosic Resins, Classification, Identification by Chemical Methods, Griess Reagent, Identification by Infrared Spectrometry, Quantitative Methods for Cellulose Ethers,
Quantitative Methods for Cellulose Esters, Quantitative Methods for Cellulose Nitrate, Nitrogen Resins, Detection and Differentiation, Identification of Melamine- and Benzoguanamine-Formaldehyde, Determination of Melamine, Determination of Benzoguanamine, Identification of Urea-Formaldehyde, Urea Content, Methylol and Dimethylol Urea-Formaldehyde Content, Ethylene Urea-Formaldehyde Content, Thiourea Content, Acrylnitrile, Free Acrylonitrile Monomer Content, Polyacrylonitrile Content, Analysis of Copolymers of Acrylonitrile,
Polyamide Content, Reagent, Polyurethane Resins, Other Nitrogen Polymers, Phenol-Formaldehyde and Epoxy Resins, Spectrophotometric Identification of Phenolic Resins, Quantitative Methods for Phenolic Resins, Chemical Methods for Identifying Epoxy Resins, Spectrophotometric Identification of Epoxy Resins, Quantitative Analysis of Epoxy Resins, Analysis of Curing Agents for Epoxy Resins, Silicone Resins, Chemical Examination, Spectrometric Examination, Special Methods, Vinyl Resins, Qualitative Methods, Quantitative Methods, Acrylic Resins, Identification by Infrared Techniques, Identification by Gas-Liquid tography, Determination of Monomer, Quantitative Methods for the Polymer
18. RAW MATERIAL

- Drying Oils, Cacahuananche Oil, Castor Oil, Chia Oil, Corn Oil, Cottonseed Oil, Hempseed Oil, Linseed Oil, Lumbang Oil, Oitictca Oil, Perilla Oil, Poppyseed Oil, Rapeseed Oil, Safflower Oil, Soybean Oil, Sunflower Oil, Tung Oil, Sampling, Notes on Reagents for Chemical Tests, Acid Value, ASTM Method, Diener-Werthan Method, Method for Dark Oils, Potentiometric Method, Method for Films, Saponification Value, Potentiometric Method, Double Indicator Method, Unsaponifiable Matter, Unsaturation,
Wijs Iodine Value, Roseninund-Ktihnhenn Method, Apparatus, Reagents, Hexabromide Test for Underlie Acid, Reagents, Kaufmann Thiocyanate Value, Calculations, Conjugated Diene Value, Reagents and Solvents, Ash, Foots, Volumetric Test, Reagents and Apparatus, Gravimetric Method, Reagents and Apparatus, Carbon Tetrachloride, Specific Gravity, Refractive Index, Optical Dispersion Test for Tung Oil, Viscosity, Relation of Refractive Index to Viscosity and Molecular Weight, Clarity, Color, Flash Point, Loss On Heating, Moisture by Karl Fischer Method,
19. DRIERS AND METALLIC SOAPS

- Introduction, Physical Tests on Driers, Appearance, Color, Miscibility, Drying Power, Flash Paint, Specific Gravity, Viscosity, Stability, Chemical Analysis, Metal Separation by Ashing, Metal Separation with Hydrochloric Acid, Metal Separation as Acetate, Metal Separation as Oxalate, Determination of Lead, Determination of Manganese, Determination of Cobalt, Determination of Zinc, Determination of Iron, Chelometric Determination of Drier Metals, Lucchesi Method, Solutions,
20. NATURAL RESINS

- Classifications, Identification of Natural Resins, Identification of Rosin, Identification of Lac, Commercial Grades of Natural Resins, Manila (Macassar) Spirit Soluble, Manila (Philippine) Spirit Soluble, Manila (Singapore), Congo (American Gum Importers Classification), Refractive Index, Hardness, Softening Point, Capillary Tube Method, Ring and Bull Method, Preparation of Sample, Durrans Method, Wilter Method, Paramet Method, Drip Method, Density, Bulking Value, Solubility,
Nonvolatile Content of Resin Solutions, Dirt in Resins, Volumetric Method for Dirt, Gravimetric Method for Din, Ash Content, Moisture Content, Acid Value, Reserve the specimen for the indirect acid value, AGI Indirect Acid Value, AGI Saponification Value, Rosin, Sampling and Grading Rosin, Sampling Rosin, Color of Rosin, Softening Point of Rosin, Dirt in Rosin, Toluene Insoluble Matter, Georgi Photographic Method, Ash in Rosin, Iron Content, Spectrophotometric Procedure, Visual Photometric Procedure, Acid Value, Saponification Value of Rosin, Unsaponifiable Matter in Rosin,
21. CELLULOSICS

- Cellulose Nitrate, Viscosity Grade, Solubility and Appearance of Solution, Film Test, Toluene Dilution Ratio, Cellulose Nitrate Base Solutions, Viscosity, Nonvolatile Content, Appearance, Cellulose Acetate, Viscosity, Color and Haze, Solubility and Appearance of Solution, Cellulose Acetate-Butyratce and Cellulose Acetate-Propionate, Ethylcellulose, Viscosity, Methylcellulose, Viscosity of Water-Soluble Methylcellulose, Viscosity of Alkali-Soluble Methylcellulose, Sodium Carboxymethylcellulose, Viscosity, Hydroxyethylcellulose, Hydroxypropyl Methylcellulose, Viscosity, Hydrogen I on Concentration, Solids
22. PLASTICIZERS

- Introduction, Physical and Chemical Test Methods, Acidity, Color, Compatibility, Copper Corrosion, Distillation Range, Electrical Properties, Ester Value, Flash Point, Refractive Index, Residual Odor, Sampling, Solidification Point, Specific Gravity, Viscosity, Water, Chemical Methods of Identification and Measurement, Isolation of Plasticizer, Qualitative Methods, Quantitative Methods, Instrumental Methods, Identifications by Refractive Index and Density, Fluorescence, Spectrophotometry, Chromatography
23. SOLVENTS

- Definition and Requirements, Solvency, Solubility Parameter System, Viscosity Reduction, Aniline Point, Kauri-Butanol Value, Dilution Ratio, Dilution Limit, Evaporation (volatility), Vapor Pressure, Evaporation Rates by Electrobalance, Butyl Acetate Evaporation Standard, Historical Evaporation Rate Methods, Evaporation of Solvent from Coatings, Solvent Retention by Films, Distillation Temperature, McArdle-Robertson Evaporation Index, Analytical Distillation, Flash Point,
Composition, Chromatography, Liquid Chromatography, Acid Absorption and Bromine Number Methods, Refractively Intercept, Ester Value of Lacquer Thinners, Physical Properties, Density and Specific Gravity, Refractive Index, Purity and Impurities, Color, Acid Wash Color, Odor, Sulfur Compounds, Nonvolatile Residue, Water Contamination, Acidity and Alkalinity, Other Contaminants, Specifications, Systematic Identification and Analysis
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New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Tel: +91-11-23843955, 23845654, 23845886, 8800733955
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- Coal & Coal Byproduct
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- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
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- Fruits & Vegetables Processing
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- Hospital Based Projects
- Herbal Based Projects
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- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
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- Paints, Pigments, Varnish & Lacquer
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Niir Project Consultancy Services
106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.
Email: _npcs.ei@gmail.com_ , _info@entrepreneurindia.co_
Tel: +91-11-23843955, 23845654, 23845886, 8800733955
Mobile: +91-9811043595
Website: [www.entrepreneurindia.co](http://www.entrepreneurindia.co), [www.niir.org](http://www.niir.org)
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