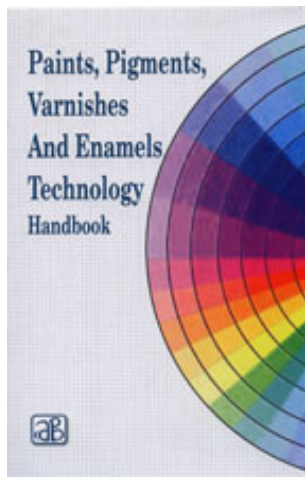


Paints, Pigments, Varnishes and Enamels Technology Handbook



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Paints, varnishes, pigments and enamel industry is gaining ground at a rapid pace in modern time accompanied with closed advance in surface coating technology. They are formulated for specific purposes: outside house paints and exterior varnishes are intended to give good service when exposed to weathering; interior wall paints are formulated to give excellent coverage. A pigment is a material that changes the color of reflected or transmitted light as the result of wavelength selective absorption. This physical process differs from fluorescence, phosphorescence, and other forms of luminescence, in which a material emits light. Varnish is one of the important parts of surface coating industry. Varnish is a transparent, hard, protective finish or film primarily used in wood finishing but also for other materials. They are used to change the surface gloss, making the surface more matte or higher gloss, or to provide the various areas of a painting with a more unified finish. 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. Paint is any liquid, liquefiable, or mastic composition which after application to a substrate in a thin layer is converted to an opaque solid film. It is most commonly used to protect, colour or provide texture to objects. The paint industry volume in India has been growing at 15% per annum for quite some years now. As far as the future growth prospects are concerned, the industry is expected to grow at 12 to 13% annually over the next five years. Enamel paint is paint that air dries to a hard, usually glossy, finish, used for coating surfaces that are outdoors or otherwise subject to wear or variations in temperature; it should not be confused with decorated objects in painted enamel, where vitreous enamel is applied with brushes and fired in a kiln. The technology is required to produce different type of new paints and varnishes based on different type of uses. The paint and coatings industry plays an integral role in sustainability; coatings protect the objects we depend on every day, preserve our possessions, so they last longer and provide for a sustainable future. They are indispensable products that extend the useful life of everyday objects by acting as a protective barrier. These newer products have enabled paint manufacturers to improve the performance properties of their paints and coatings and so satisfy the more stringent requirements of our modern industrial society. The future for industrial paints, pigments, varnishes and enamels is bright. In the next few years its value will go up gradually in line with the global trend. This book basically deals with testing of raw materials for coatings, paint testing, color in paint, maintenance

paints, principles of effective maintenance painting, emulsion paints, exterior or interior paints, exterior or interior multicolor paints, exterior swimming pool paints and enamels, interior ceiling paints, metal paints, marine paints, enamel paints, interior fire retardant paints, interior gloss paints, interior semi gloss white enamel (acrylic), paint formulation, the manufacture of natural copal varnishes, the manufacture of spirit varnishes etc.

The present book covers the various formulae and processes of paints, pigments, varnishes and enamels. This book is very suitable for new entrepreneurs, existing units, technocrats, technical institutions etc.

Contents

1. TESTING OF RAW MATERIALS FOR COATINGS

Pigments

Oil Absorption

Color

Tinting Strength of Colored pigments

Tinting Strength of White Pigments

Coarse Particles

Oils

Mono-Di-and Triglycerides

Instrumental Analysis of Oils

Gas Chromatography

Resins, Polymers, Plasticizers

Solvents

2. PAINT TESTING

Importance of testing

Classification

Discernment of Appropriate Qualities

Selection of Test

Conduct of Test

Interpretation of Results

Establishment of Standard Variances

Color Testing

Incorrect Standards And Test Procedures in Industry

Statistical Analysis

3. COLOR IN PAINT

Visible Spectrum

Three Dimensions of Color

Tristimulus Values X, Y, Z

Chromaticity Coordinates

Color Order Systems

Sample Preparation for Color Measurement

Tolerance Specification

Color Control by Visual Observation

Color Control by Instrumentation

MacAdam Tolerances

Instrument Accuracy for Tolerance Limitations

Gloss and Its Effect on Color

Light Sources For Color Matching

Color Formulation

4. MAINTENANCE PAINTS

- Paint Types and Selection
- Barrier Protection
- Sacrificial Protection
- Coating Types
- Resistances
- Description by Generic Types
 - Oil Derived
 - Sacrificial Metal
 - Silicones
 - Thermosetting Resins
 - Neoprene
 - Waxes and Greases
 - Bitumens
 - Rubber Base
 - Vinyl Chloracetate
- Principles of Effective Maintenance Painting
- Failure Mechanism
- Coating Thicknesses
- Number of Coats
- Wood
- Nonferrous Metals
- Effect of Exposure
- Paint System and Application
- Surface Preparation
- Priming
- Intermediate and Finish Coating

5. EMULSION PAINTS

- Ingredients of an Emulsion Paint
- Surfactants
- Structure of Surfactants
- Types of Surfactants
- Behavior of Emulsions
- Protective Colloid
- pH
- Emulsion Formation
- Emulsion Polymerization
- Polymerization.
- Ingredients
- Post-emulsification
- Stability of Emulsions

6. EXTERIOR OR INTERIOR PAINTS

- Exterior or Interior White Medium Texture Masonary Paint (TT-C-00555) (Styrene-Acrylate/Chlorinated Paraffin)
- Exterior or Interior White Medium Texture Masonary Paint (TT-C-00555) (Styrene-Acrylate/Chlorinated Paraffin/Resin)
- Exterior or Interior White Medium Texture Masonry Paint (TT-C-00555) (Styrene-Butadiene/Chlorinated Paraffin)
- Exterior or Interior White Medium Texture Masonry Paint (Vinyl Toluene-Acrylate/Chlorinated Paraffin)

Exterior or Interior White Medium Texture Masonry Paint
(TT-C-00555) (Vinyl Toluene-Butadiene/Chlorinated Paraffin)
Exterior or Interior General Purpose Aluminum Paint (Alkyd)
Exterior or Interior General-Purpose High-Quality Aluminum Paint (Coumarone-Indene/Menhaden Oil)

7. EXTERIOR OR INTERIOR MULTICOLOR PAINTS

Exterior or Interior White Multicolor Paint
(Vinyl Toluene-Butadiene)
Exterior or Interior Tint Base Multicolor Paint
(Vinyl Toluene-Butadiene)
Exterior or Interior Black Multicolor Paint
(Vinyl Toluene-Butadiene)
Exterior or Interior Red Multicolor Paint
(Vinyl Toluene-Butadiene)
Exterior or Interior Varnish
Exterior or Interior Clear Varnish (Polyurethane)

8. EXTERIOR SWIMMING POOL PAINTS AND ENAMELS

Exterior White Swimming Pool or Masonry Paint
(Chlorinated Rubber/Hydrocarbon Resin/Chlorinated Paraffin)
Exterior Semigloss Blue Swimming Pool Paint
(TT-P-95A) (Styrene-Acrylate)
Exterior Gloss Blue Swimming Pool Paint
(Styrene-Acrylate)
Exterior Gloss Blue Swimming Pool Paint
(TT-P-95A) (Styrene-Acrylate)
Exterior Blue Swimming Pool Enamel
(Chlorinated Rubber/Chlorinated Paraffin)
Exterior Light Green Swimming Pool Enamel
(Two Component: Urethane-Catalyst)

9. INTERIOR CEILING PAINTS

Interior Flat White Ceiling Paint (Alkyd)
Interior Flat White Ceiling Paint (Alkyd)
Interior Flat White Ceiling Paint (Alkyd)
Interior Flat White High-Quality Low Cost Ceiling Paint (Alkyd)

10. METAL PAINTS

Ready-Mix Aluminum Paint
(Linseed Oil)
Galvanized Metal Primer
Zinc Chromate Primer
Specification of Suspension Properties
Lower Cost Utility Red Oxide Primer
Corrosion Resistant Top Coat
Deep Yellow Aerosol Enamel
Gray Automotive Enamel
Gray Automotive Enamel
Implement Enamel
Screw-Cap Coating
White Coating for Can Bodies
Metal Protective Coating
Valve and Actuator Selection

Application
Zinc Rich Primer
Zinc Chromate Primer
Iron Oxide - Zinc Chromate Primer
Epoxy-Ester Zinc Chromate Spraying Primer
Lead Silico Chromate Primer
Baking Primers
Red Lead Metal Primer
Uses
Red Lead/Red Iron Oxide General Purpose Flash Dry Primer
Iron Oxide Primer
Red Primer
Automotive Flash Primer
Strontium Chromate Primer
Appliance and Metal Furniture Primer
Detergent-Resistant Appliance Primer
Stainless Steel Industrial Maintenance Primer
Gray Baking Sanding Primer Surfacer
Uses
White Appliance Enamel
Epoxy White Gloss Enamel
White Enamel
White Brushing Enamel
White Metal Deco Enamel
Machinery Enamel
Gray Enamel
Epoxy Green Enamel
Clear Epoxy Coating
Application
Epoxy Clear Film
Black Aerosol Enamel
Gray Spraying Finish
Uses
Unpigmented Can Coating
Can Coating and Drum Lining
Unpigmented Drum Lining
Clear Interior Drum Lining
Uses
Unpigmented Tank Lining
High Solids Tank Liner
Chemical Resistant Metal Coating
White Roller Coat Tube Enamel
Red Lead-Iron Oxide Mastic Coating
Resin Coating
Procedure
Aluminum Paint
Interior Mill White Gloss Enamel
(Triamino-Ester)
Coil Coating - Resistant Siding Type
Polyester White Coil Coating Enamel
White High Gloss Electrocoating
Primer for Galvanized
Red Iron Oxide Primer

Procedure
Dark Grey Single Coat or Primer
Beige Single Coat
Latex Maintenance Enamels
Exterior Latex Metal Paint
Interior Latex Flat Wall Paint for Machine and Tube Colorants
Latex Aluminum Paint
Latex Aluminum Paint
Zinc Chromate, Corrosion Inhibiting Primer
Maintenance Primer
Acrylic Lacquer Aerosol Metal Coating
Package
Directions for Use
Precautions
Aerosol Aluminum Enamel
Aerosol High Temperature Aluminum Paint
Package
Directions for use
Precautions
Lead Primer
Lead Silico Chromate Primer
Anticorrosive Primer
Anticorrosive Chlorinated Rubber Thick Coatings Primers
Anticorrosive Chlorinated Rubber Topcoats
Thixotropic Zinc Chromate Primer

11. MARINE PAINTS

Marine Anticorrosive Primer High Flash Point Solvent
Marine Anti-Fouling Ship-Bottom Paint with High Flash Point
Marine Vinyl/Alkyd Enamel (Black)
Grey Marine Vinyl/Alkyd Enamel
Zinc Dust Primer
Underwater Coating
Composition of Rosin-Vinyl Antifouling Paints
(Nonvolatile Portion Only)
Rosin Antifouling Coatings
Chlorinated Rubber Marine High-Build Coatings with Inhibiting Pigment for Airless Spray
Metallic Lead Primer
Chlorinated Rubber Antifouling Coatings
Chlorinated Rubber Antifouling Marine Paint System
(Metallic Coatings)
(Thick Coatings)
(Antifouling Topcoat)
Marine Coating for Cold, Damp Weather Application
Marine Primer for Cold, Damp Weather Application
Tri-Amino Marine Enamel
Tri-Amino Marine Spar Varnish

12. ENAMEL PAINTS

Semi-Gloss Enamel
White Semi-Gloss Enamel
Dark Green Porch and Deck Enamel
High Quality Semi-Gloss Enamel
Black Rapid-Dry Enamel

Gloss White Architectural Enamel
Semigloss Tint Base
Odorless Alkyd Gloss Enamel
Odorless High Gloss White
Nonpenetrating Semi-Gloss
Nonpenetrating Gloss Enamel
Spraying Red Automotive Enamel
Alkyd Aerosol Enamels
Aerosol Packing
White Aerosol Enamel
Deep Yellow Aerosol Enamel
Stipple Gloss Enamel
High Solids, Light Blue Enamel
Preparation of Base Component
High Solids, Beige Enamel
Preparation of Base Component
White Tinting Enamel
Black Aerosol Enamel
White Aerosol Enamel
Epoxy-Amine High Solids White Spray Coating
Epoxy Solventless Enamel
Gloss Enamel
Semigloss Enamel
Painter's Enamel
Gray High Solids Epoxy-Polyamide Spraying Enamel
Vanoxy Green, Enamel
Red Epoxy Enamel
Epoxy Green Enamel
Epoxy White Enamel
Yellow Gloss Epoxy Enamel
Gloss White Enamel
Blue Gloss Enamel
Yellow Industrial Enamel
Automotive and Equipment White Enamel
Bright Red Automotive Enamel
Industrial Orange Enamel

13. INTERIOR FIRE-RETARDANT PAINTS

Interior Intumescent Fire-Retardant White Paint
Interior Intumescent Fire-Retardant White Paint
Interior Intumescent Fire-Retardant White Paint
Interior Intumescent Fire-Retardant White Paint
Interior Fire-Retardant White Paint

14. INTERIOR GLOSS PAINTS

Interior Gloss White Paint (Acrylic)
Interior Gloss White Paint (Acrylic)
Interior Gloss White Paint (Acrylic)
Interior Gloss White Paint (Acrylic)
Interior Gloss White Paint (Acrylic)
Interior Gloss White Paint (Acrylic/Vinyl Acetate-Acrylic)
Interior Gloss White Paint (Acrylic/Vinyl Acetate-Acrylic)
Interior Gloss White Paint (Latex)
Interior Gloss White Paint (Styrene-Acrylate)

Interior Gloss White Paint (Vinyl Acetate)
Interior Gloss White Paint (Vinyl Acetate-Acrylic)
Interior Gloss White Paint [Vinyl Acetate-Acrylic(S)]
Interior Gloss White Paint (Vinyl Acetate-Ethylene)
Interior Gloss White Paint (Vinyl Acetate-Ethylene)
Interior Gloss White Paint (TT-p-1511A, Type II) (Acrylic)
Interior Full Gloss White Paint (Acrylics)
Interior High Gloss White Paint (Acrylic)
Interior Gloss White And Tint Base Paint (Vinyl Acetate)
Interior Gloss White And Tint Base Paint
Interior Gloss White and Tint Base Paint
Interior Gloss White And Tint Base Paint
(Vinyl Acetate - Ethylene)
Interior Gloss Tint Base Paint (Vinyl Acetate-Ethylene)
Interior gloss enamels
Interior Gloss White Enamel (Acrylic)
Interior Gloss White Enamel (Acrylic-Styrene/Alkyd)
Interior Gloss White Enamel (Alkyds)
Interior High Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior High Quality Gloss White Enamel (Acrylic)
Interior Medium Cost Gloss White Enamel (Acrylic)
Interior Gloss White And Tint Base Enamel (Acrylic)
Interior Gloss White And Tint Base Enamel (Alkyd)
Interior High Gloss White And Tint Base Enamel (Alkyds)

15. INTERIOR SEMIGLOSS WHITE PAINTS

Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior Semigloss White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Semigloss White Paint
(Vinyl Acetate)
Interior High Quality Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior High Quality Semigloss White Paint
(Vinyl Acetate-Acrylic)

Interior High Quality Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior High Quality Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior Low Cost Semigloss White Paint (Acrylic)
Interior Low Cost Semigloss White Paint (Acrylic)
Interior Low Cost Semigloss White Paint (Acrylic)
Interior Low Cost Semigloss White Paint (Acrylic)
Interior Low Cost Semigloss White Paint (Acrylic)
Interior Low Cost Semigloss White Paint (Vinyl Acetate)
Interior Low Cost Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior Medium Priced Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior Medium Priced Semigloss White Paint
(Vinyl Acetate-Acrylic)
Interior Semigloss White and Tint Base Paints
Interior Semigloss White and Tint Base Paint (Acrylic)
Interior Semigloss White and Tint Base Paint
(Vinyl Acetate)
Interior High Quality Semigloss White and Tint Base Paint (Acrylic)
Interior Low Cost Semigloss White and Tint Base Paint
(Vinyl Acetate)
Interior Low Cost Semigloss White and Tint Base Paint
(Vinyl Acetate)
Interior Low Cost Semigloss White and Tint Base Paint
(Vinyl Acetate-Acrylic)
Interior Semigloss Tint Base Paint
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Medium Tint Base Paint (Acrylic)
Interior Semigloss Pastel Tint Base Paint (Acrylic)
Interior High Quality Semigloss Tint Base Paint (Acrylic)
Interior Semigloss Enamel
Interior Semigloss White Enamel (Acrylic)
Interior Semigloss White Paint (Acrylic)
Interior Semigloss White Enamel (Acrylic)
Interior Semigloss White Enamel (Acrylic)
Interior Semigloss White Enamel (Acrylic)
Interior Medium Gloss White Enamel (Acrylic)
Interior Medium Gloss White Enamel (Acrylic)
Interior High Quality Semigloss White Enamel (Acrylic)
Interior High Quality Semigloss White Enamel (Acrylic)
Interior High Quality Semigloss White Enamel (Acrylic)
Interior Low Cost Semigloss White Enamel
(Vinyl Acetate)
Interior Moderate Cost Semigloss White Enamel (Acrylic)
Interior Semigloss White and Tint Base Enamel (Alkyd)
Interior Semigloss White and Tint Base Enamel (Alkyd)
Interior Semigloss White and Tint Base Enamel

(Vinyl-Acetate Acrylic)
Interior Semigloss White and Tint Base Enamel
(Vinyl-Acetate Acrylic)
Interior High Semigloss White and Tint Base Enamel
(Alkyd/Acrylic)

16. PAINT FORMULATION

Art
Science
Raw Materials
Manufacture
Cost
Performance
Principles
Pigment - Volume Concentration
Critical Pigment Volume Concentration
Pigments
Vehicle
Solvents and Driers
Formulation Example
White House Paint
Computer

17. MANUFACTURING TECHNOLOGY

1. Process Technology
1.1 Paint Manufacture
1.2 Powder Coating Manufacture
1.3 Resin Manufacture
2. Equipments
3. Laboratory Equipment
4. Quality Control
5. Automation

18. THE MANUFACTURE OF NATURAL COPAL VARNISHES

Disintegration or Size Reduction of the Copal
Method of Heating
Stirring
Capacity of the Kettle
Condensation of Vapours
Addition of Drying Oil
Addition of Driers " Lithorge, etc.
Addition of Liquid Driers and Thinners
Temperature Measurement
Discharging
Access to the Inside of the Kettle
Flanged or Welded Bottoms
Choice of Metal
Special Accessories
Fire Risks
Special Plant Designs
Choice of Running Kettle
General Plant Arrangement

19. THE MANUFACTURE OF BLACK VARNISHES

Charging the Vessel with Bitumen
Heating and Sweating
Addition of Resin

Addition of Oil
Addition of Driers
Cooling and Thinning
Cleansing
Storage
Oil-free Black Varnishes
Special Equipment

20. THE MANUFACTURE OF SPIRIT VARNISHES

Spirit Manila Varnishes
Shellac Varnishes
Accroides Varnishes
Oxidised Rosin Varnishes
Phenolic Resin Varnishes
Urea-formaldehyde Resin Varnishes
Hydrocarbon Base Varnishes

21. FLOOR PAINTS AND ENAMELS

Medium Tint Base Paint (Vinyl Acetate-Acrylic/Epoxy)
Gray Floor Paint (Acrylic)
Green Floor Paint (Vinyl Acetate-Acrylic/Epoxy)
Red Floor Paint (Vinyl Acetate-Acrylic/Epoxy)
Gray Floor Enamel (Acrylic/Alkyd)

22. INTERIOR CONCRETE PAINTS AND ENAMELS

Interior White Concrete Floor Paint (TT-P-0091D) (Styrene-Butadiene)
Interior Brown Concrete Enamel (Styrene-Butadiene)
Interior Battleship Gray Concrete Enamel
(Styrene-Butadiene)
Interior Light Gray Concrete Enamel (Styrene-Butadiene)
Interior Olive Gray Concrete Enamel (Styrene-Butadiene)
Interior Silver Gray Concrete Enamel (Styrene-Butadiene)
Interior Dark Green Concrete Enamel (Styrene-Butadiene)
Interior Tile Red Concrete Enamel (Styrene-Butadiene)
Interior Yellow Concrete Enamel (Styrene-Butadiene)

23. EXTERIOR WHITE ENAMELS

Exterior Low Gloss White Low-Odor Enamel
(Two-Component, Epoxy-Polyester)
Exterior Low Gloss White Low-Odor Enamel
(A.P.A. Approved) (Two-Component, Epoxy-Polyester)
Exterior Low Gloss White Low-Odor Enamel
(A.P.A. Approved) (Two-Component, Epoxy-Polyester)
Exterior Low Gloss White Low-Odor Enamel
(TT-C-545D Type) (Two-Component, Epoxy-Polyester)
Exterior Semigloss White Enamel (Alkyd)
Exterior Semigloss White Enamel (TT-E-490B) (Alkyd)
Exterior Semigloss White Low-Odor Enamel
(Two-Component: Epoxy Polyester)

Exterior Semigloss White Low-Odor Enamel
(Two-Component: Epoxy-Polyester)
Exterior Semigloss White Enamel (Styrene-Acrylate)
Exterior Semigloss White Enamel (Styrene-Acrylate)
Exterior Gloss White Color-Retentive Enamel (Acrylic)
Exterior Gloss White Enamel (Alkyd)
Exterior Gloss White Fast-Drying Enamel (Alkyd)
Exterior Gloss White Fast-Drying Enamel (Alkyd)
Exterior Gloss White Odorless Enamel (Alkyd)
Exterior Gloss White Trim Enamel (Alkyd)
Exterior Gloss White Enamel
(Two-Component: Epoxy-Polyester)
Exterior Gloss White Low-Odor Enamel
(Two-Component: Epoxy-Polyester)
Exterior Gloss White Enamel (Oxazoline)
Exterior Gloss White Enamel (Styrene-Acrylate)
Exterior Gloss White Enamel (Styrene-Acrylate)
Exterior Gloss White Marine and General Purpose Low-Cost Enamel (Urethane)
Exterior White Rapid-Drying Enamel (Alkyd)
Exterior White Enamel (Urethane)
Exterior White Tile-Like Enamel
(Two-Component: Urethane-Catalyst)

24. EXTERIOR OR INTERIOR ENAMELS

Exterior or Interior Gloss White Enamel (Alkyd)
Exterior or Interior Gloss White Enamel (Alkyd)
Exterior or Interior Gloss Blue Enamel
(Alkyd/Hydrocarbon Resin)
Exterior or Interior Gloss Gray Enamel
(Alkyd/Hydrocarbon Resin)
Exterior or Interior Gloss Green Enamel
(Alkyd/Hydrocarbon Resin)
Exterior or Interior Gloss Yellow Enamel
(Hydrocarbon Resin)

25. VARNISHES, LACQUERS AND FLOOR FINISHES

Cold-Blend Spar Varnish â€“ Metal
General-Purpose Utility Varnish
Crown Cap Varnish
Furniture Rubbing Varnish
Four-Hour Floor and Trim Varnish
Clear Floor Varnish
Flatted Alkyd Varnish
Alkyd Rubber Lacquer
Epoxy Clear Coating
Epoxy-Amine Clear Coating
Epoxy Clear Coating
Clear Flexible Epoxy-Amine Exterior Coating
Flatting Base
Clear Varnish
Gray Floor Enamel
MFMA Gym Floor Finish â€“ 40% Solids
General Purpose Varnish â€“ 50% Solids.
Marine Spar Varnish

Chemically Resistant Varnish
Overpaint Varnish
Porch and Deck Varnish
Venetian Blend Varnish
Clear Acrylic Lacquer
Directions for Use
Package
Precautions
Acryloid Acrylic Wood Lacquer
Protective Acrylic Coating for Copper Metal
Acrylic Lacquer
Clear Sanding Sealer
Varnish
Maroon Floor Varnish
(Phenolic Resin)
Shellac Primer Sealer
Furniture Lacquer
Cold-Blend Floor Varnish
Maroon Floor Paint
Vehicle
Gray Floor Enamel
Dull Finish Varnish
Flooring Primer
Green Floor Enamel
Red Floor Enamel

26. PIGMENTS - GENERAL CLASSIFICATION AND DESCRIPTION

Part A. Pigment Classification

Definition of Paint
The Functions of Pigments in Paint
Types of Pigments
Principles of Hiding Power
The Hiding Power of Paint

Part B. Supplemental Pigments

Definition
History
White Pigment Evaluation Methods
General Properties of Supplemental Pigments
Manufacture of Supplemental Pigments
The Major Supplemental Pigments
The Future of Supplemental Pigment Technology

27. WHITE PIGMENTS

Opacity
The Reactive White Pigments
Basic Carbonate White Lead

28. COLORED PIGMENTS

Chrome Yellows
Zinc Yellows
Strontium Yellow
Nickel Titanate Yellow
Nickel Azo Yellow
Cadmium Yellow

Yellow Iron Oxide
Hansa Yellows
Benzidine Yellows
Vat Yellows
Chrome Orange
Molybdate Orange
Cadmium Orange
â€œMercadiumâ€• Orange
Benzidine Orange
Dinitraniline Orange
Vat Dye Oranges
Chrome Greens
Chromium Oxide
Hydrated Chromium Oxide
Copper Phthalocyanine Green
Organic Green Toners
Iron Blues
Copper Phthalocyanine Blues
Ultramarine Blue
Organic Blue Toners
Indanthrone Blue
Carbazole Dioxazine Violet
Organic Violet Toner
Mineral Violet
Quinacridone Violet
Lithols
Para Reds
Toluidine Reds
BON (-OxynaphthOic) Reds and Maroons
Lithol Rubine
Chlorinated Para Red
Quinacridone reds and maroons
Red Iron Oxide
Cadmium Red and Maroons
â€œMercadiumâ€• Reds and Maroons
Red Lead
Thioindigo Reds and Maroons
Arylide Maroons
Siennas, Ochres and Umbers
Carbon Blacks, Lampblacks and Bone Blacks
Tinting Properties of Colored Pigments
Chrome Yellows
Zinc Yellows
Basic Zinc Chromate
Strontium Yellow
Nickel Titanate Yellow
Nickel Azo Yellow
Cadmium Yellow
Yellow Iron Oxide
Hansa Yellow
Benzidine Yellow
Vat Yellows
Chrome Orange

Molybdate Orange
Cadmium Orange
• Orange
Benzidine Orange
Dinitraniline Orange
Vat Dye Orange
Chrome Greens
Chromium Oxide
Hydrated Chromium Oxide
Copper Phthalocyanine Green

29. PIGMENT DISPERSION

Definition
Method
Equipment
Mill Base Formulation
Setting up a Laboratory Formula
Equipment Setups and Limitations
Tank Configuration
Premixers
Conclusions

30. PLASTICIZERS

History
Theory
Properties
Compatibility
Efficiency
Permanence
Stability
Odor, Taste, Toxicity, Color, etc.
Classification of Plasticizers
Monomeric Chemical Plasticizers
Polymeric
Oil and Fatty Acid Derivatives

31. OXYGENATED SOLVENTS

Ester Solvents
Ketone Solvents
Glycol Ether Solvents
Alcohols
Other Solvents
Solvent Properties
Resin Solubility
Evaporation Rate
Solvent Strength
Flash Point
Odor
Water Sensitivity
Pounds per Gallon
Formulation of Solvent Systems
Nitrocellulose
Vinyl Copolymer Resins

Acrylics
Epoxy

32. WOOD COATINGS

Procedure

Blister-Resistant Oil-Based Primer

33. PAINT AND VARNISH REMOVERS

Paint Removal

Formulation

Solvent Paint and Varnish Removers

Solvents

Co-solvent

Activators

Chemical Removers

Nonchlorinated Solvent Paint Removers

Removal of Epoxies

Mechanism of Paint Removal

Methods of Paint Removal

34. THE MANUFACTURE OF PAINT REMOVERS

About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

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