# **Handbook on Paints and Enamels**

Author: NPCS Board of Consultants & Engineers

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Paints 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. 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. Indian paint industry has a bright future. The Indian paints market has the potential to grow over the next decade at 15 to 20 per cent per annum owing to more investments in the housing segment and improving infrastructure, high growth in the Indian automobile industry, etc. which in turn would mean greater demand for paints, as most people aspire for better lifestyle. Moreover the per capita consumption is also low. The demand for premium category paints is likely to increase with rise in construction of commercial infrastructure. The players with aggressive marketing strategies and comprehensive product portfolios will grow at a faster rate. The emerging trends in technology and marketing indicate that the industry is likely to consolidate in the coming years with industry leaders improving their market share.

Some of the fundamentals of the book are exterior paints, rapid drying stain and blister resistant house paint, exterior white paint, flat exterior paint, exterior alkyd paint, green trim paint, outside white house paint, hi hiding gloss white house paint, white primer, exterior white house paint, speciality paints, book cloth coating, upholstery fabric coating, green epoxy polyamide flexible fire retardant coating, fire retardant clear topcoats, ignition waterproofing seal coating, polyurethane paper coating, fluorescent gravure ink, industrial paints, aluminum baking enamel, gloss black enamel, corrosion resistant baking primer, heat resistant primer, orange baking enamel, purple baking enamel, black baking enamel, red baking enamel, blue baking enamel etc.

This book is the outgrowth offered in the chemistry and chemical engineering of organic polymeric and resinous substances. Needless to say such a book is not available because of the rapidity of growth in the polymer field; it has been difficult to resist the temptation to all with new discoveries and products. The book is emphasized on manufacturing of different types of paints, enamels and allied products. It was purposely made wide, so that the book could be used as a text regardless to particular field of interest. All the chapters are introduced separately with simpler language. The book will be very resourceful for technocrats, new entrepreneurs, industrialists and for those who wants to diversify into this field.

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Exterior Flat White Paint (Oxazoline)

Exterior Low Gloss White House Paint or Exterior Wood Primer (Alkyd)

Exterior Low Gloss White Paint (Two Component: Epoxy-Polyester)

Exterior Low Gloss White House Paint (Linseed Oil)

Exterior Low Gloss White House-Quality House Paint (Menhaden Oil)

Exterior Semigloss White Paint (Alkyd)

Exterior Semigloss Soft White Nonflammable Paint (Chlorinated Alkyd)

Exterior Semigloss White Paint (Two-Component: Epoxy-Polyester)

Exterior Gloss White Paint (Alkyd)

Exterior Gloss White One Coat House Paint or Exterior Wood Primer (Alkyd)

Exterior Gloss White House Paint (Alkyd/Marine Oil)

Exterior Gloss White Paint (Two-Component: Epoxy-Polyester)

Exterior Gloss White Enamel House Paint (Oxazoline)

Exterior White Satin and Blister Resistant House Paint (Alkyd)

Exterior White One - Coat Chalk - Resistant High - Quality House Paint (Alkyd/Chlorinated Paraffin/Linseed Oil)

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Exterior White House Paint (Alkyd/Menhaden Oil)

Exterior White House Paint (Linseed Oil)

Exterior White Fume-Proof House Paint (TT- P- 103B) (Linseed Oil)

Exterior White Low-Cost Stain and Blister Resistant House Paint (Linseed Oil)

Exterior White Low-Luster House Paint (Linseed Oil)

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Exterior White Top- Quality House Paint (Linseed Oil)

Exterior White Fume- Resistant Paint (TT-P-103B Type) (Oxazoline)

Exterior White High- Solids Low-Luster House Paint (Oxazoline)

Exterior White High- Solids Low-Luster House Paint (Oxazoline)

Exterior White Stain and Blister Resistant House Paint (Resin)

Exterior White Low- Cost Fume Proof House Paint (Soybean Oil)

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# Exterior White Low-Cost Fume-Proof House Paint (Urethane)

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Exterior Aluminum Paint (Alkyd/Oil Polymer/Phenolic)

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Exterior Gloss Black Low- Odor Enamel (Two- Component: Epoxy- Polyester)

Exterior Gloss Black Low- Odor Enamel (Two- Component: Epoxy- Polyester)

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Exterior Gloss Green Low-Odor Enamel (Two-Component: Epoxy- Polyester)

Exterior Gloss Green Low-Odor Enamel (Two-Component: Epoxy- Polyester)

Exterior Gloss Green Enamel (Oxazoline)

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Interior Flat White Paint (Vinyl Acetate-Acrylic)
Interior Flat White Paint (Vinyl Acetate-Alkyl Maleate)
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Interior Flat White Paint (Vinyl Chloride-Vinyl Acetate-Ethylene)
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Interior Second Line Flat White Paint (Vinyl Acetate-Acrylic)
Interior Professional Painter Spray Application Flat White Paint (Vinyl Acetate-Acrylic)
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Interior Flat White Low-cost Paint (Alkyd)
Interior Flat White Low-cost Paint (Alkyd)
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Interior Flat White Odorless High-Quality Paint (Alkyd)
Interior Flat White Odorless Wall Paint (Alkyd)
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Interior Flat White Wall Paint (Alkyd)
Interior Flat White Low-cost Wall Paint (Linseed Oil)
Interior Flat White Enamel (Alkyd)
Interior Flat White Low-Luster Eggshell Enamel (Alkyd)
Interior Flat White Low-Sheen Nonpenetrating Fast-Drying Enamel (Alkyd)
Interior Flat White Nonpenetrating Fast-drying Enamel (Alkyd)
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Interior Flat White One-Coat High-Quality Enamel (Alkyd)

Interior Flat White Thixotropic Enamel (Alkyd)

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Interior Flat Light Tint Base Paint (Vinyl Acetate-Acrylic)

Interior Flat Light Tint Base Paint (Vinyl Acetate-Acrylic)

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Interior Flat Dark Tint Base Paint (Vinyl Acetate-Acrylic)

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Interior Low Cost Flat Tint Base Paint (Vinyl Acetate-Acrylic)

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Interior High Quality Flat White Wall Paint (Vinyl Acetate-Acrylic)

Interior High Quality Flat White Wall Paint (Vinyl Acetate-Ethylene)

Interior High Quality High Hiding Flat White Paint (Vinyl Acetate-Acrylic)

Interior High Quality High Hiding Flat White Paint [Vinyl Acetate-Acrylic(S)]

Interior High Quality Lower Cost Flat White Paint (Latex)

Interior High Quality Lower Cost Flat White Paint (Latex)

Interior High Quality Lower Cost Flat White Wall Paint (Acrylic)

# 8. Exterior Masonry Paints and Concrete Enamels

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Exterior White Masonry Paint (Styrene-Butadiene)

Exterior White Masonry Paint (TT-P-97D) (Styrene-Butadiene/Chlorinated Paraffin)

Exterior White Chalk-Resistant Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Tint Base Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Blue Masonry Paint (TT-P-1181A, Type I) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Pink Masonry Paint (TT-P-1181A, Type I) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Hansa Yellow Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Mediumtone Red Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Deeptone Black Masonry Paint (Vinyltoluene-Acrylate/Chlorinated Paraffin)

Exterior Deeptone Blue Masonry Paint (TT-P-1181A, Type II) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Deeptone Blue Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Deeptone Blue Masonry Paint (Vinyl Toluene Acrylate/Chlorinated Paraffin)

Exterior Deeptone Brown Masonry Paint (TT-P 1181A, Type II) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Deeptone Brown Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Deeptone Gray Masonry Paint (Styrene-Butadiene/Chlorinated Paraffin)

Exterior Deeptone Green Masonry Paint (TT-P-1181A, Type II) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Deeptone Red Masonry Paint (TT-P-1181A, Type II) (Styrene-Acrylate/Chlorinated Paraffin)

Exterior Deeptone Red Masonry Paint (Vinyl Toluene Acrylate/Chlorinated Paraffin)

Exterior Deeptone Yellow Masonry Paint (Vinyl Toluene-Acrylate/Chlorinated Paraffin)

Exterior Aqua Heavy-Duty Concrete Enamel (Urethane)

Exterior Brown Heavy-Duty Concrete Enamel (Urethane)

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Acrylic-Nitrocellulose Aircraft

Acrylic Camouflage Lacquer

Acrylic Gray Automotive Lacquer

Acrylic Exterior Can Enamel: Formula No. 1 (Clear)

Acrylic Interior Can Coating

**Epoxy Interior-Exterior Can Coating** 

Phenolic Interior-Exterior Can Coating

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Polyester White Coil Coating

Acrylic Aerosol Metal Paints

Alkyd Airless Spray Metal Paint

Alkyd Aluminum Paint

Alkyd Metal Paint

Alkyd Weldable Metallically Pigmented Coating

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Interior Flat White and Tint Base Paint (Vinyl Acetate)

Interior Flat White and Tint Base Paint (Vinyl Acetate)

Interior Flat White and Tint Base Paint (Vinyl Acetate)

Interior Flat White and Tint Base Paint (Vinyl Acetate)

Interior Flat White and Tint Base Paint (Vinyl Acetate)

Interior Flat White and Tint Base Paint (Vinyl Acetate)

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Interior Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)

Interior Flat White and Tint Base Paint (TT-P-29H, Type I) (Vinyl Acetate-Acrylic)

Interior Flat White and Tint Base Paint (TT-P-29J) (Vinyl Acetate Acrylic)

Interior Flat White and Tint Base Paint (TT-P-29J) (Vinyl Acetate-Acrylic)

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Interior Flat White and Tint Base Wall Paint (Vinyl Acetate-Acrylic)

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Interior Flat White and Light Tint Base Paint (Vinyl Acetate-Acrylic)

Interior Flat White and Light Tint Base Paint (Vinyl Acetate-Acrylic)

Interior Flat White and Light Tint Base Paint (Vinyl Acetate-Acrylic)
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Interior Flat White and Light Tint Base Wall Paint (Vinyl Acetate)
Interior Flat White and Light Tint Base Wall Paint (Vinyl Acetate-Acrylic)
Interior High Hinding Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
Interior High Sheen Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Intermediate Line Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Intermediate Line Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Intermediate Line Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Intermediate Line Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)

# 11. Speciality Paints

**Book Cloth Coating** 

**Upholstery Fabric Coating** 

Green Epoxy-Polyamide Flexible Fire-Retardant Coating

Intumescent Fire Retardant Coating

Fire Retardant Clear Topcoats

Hypalon Paint for Flexible Substrates

Hypalon Paint for Rigid or Semirigid Substrates

Ignition Waterproofing Seal Coating

Polyurethane Paper Coating

Fluorescent Gravure Ink

Alkyd Roof Paint

Asphalt Roof Paint

Synthetic Rubber Roof Coating

Splash Zone Coating

Stencil Paint

Nonskid Paint for Decks and Swimming Pool Borders

Swimming Pool Paint

Traffic Line Paint

Tree Wound Paint

Acrylic Lacquers

Acrylic Automotive Refinish

**Decorative Spray Paint** 

**Epoxy Coating for Rigid Substrates** 

# Formulation

# 12. Masonry Paints

Weather Barrier Mastic Coating

Latex Exterior Masonry Paint

Chlorinated Rubber Swimming Pool and Masonry Paint

Latex Exterior Paint for Wood and Masonry

Latex Stucco and Masonry Paint

Latex Multipurpose Masonry Paint

Acrylic Masonry Floor Paint

Latex Interior Concrete Floor Paint

# 13. Interior Low Cost Flat White Paints

Interior Low Cost Flat White Paints (Vinyl Acetate)

Interior Low Cost Flat White Paint (Vinyl Acetate-Acrylic)

Interior Low Cost Flat White Wall Paint (Vinyl Acetate-Acrylic)

Interior Low Cost Flat White Wall Paint (Vinyl Acetate-Acrylic)

Interior Low Cost Flat White Wall Paint (TT-P-29D) (Vinyl Acetate)

Interior Low Cost High Hiding Flat White Paint (Vinyl Acetate)

Interior Low Cost High Hiding Flat White Paints (Vinyl Acetate-Acrylic)

Interior Lower Cost Flat White Paint (Vinyl Acetate-Acrylic)

Interior Lower Cost Flat White Wall Paint (Vinyl Acetate-Acrylic)

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Aluminum Baking Enamel

Gloss Black Enamel

Corrosion-Resistant Baking Primer

Heat-Resistant Primer

Orange Baking Enamel

Purple Baking Enamel

Black Baking Enamel

Red Baking Enamel

Blue Baking Enamel

Yellow Baking Enamel

White Baking Enamel

White Kitchen Cabinet Enamel

White Enamel for Appliances

Gray Corrosion-Resistant Baking Enamel

Gloss Baking Enamel

White Metal Decorating Enamel

Gray, High-Speed Baking Primer

Clear Baking Enamel

Gray Epoxy-Urea Flexible Baking Finish

**Epoxy-Polyurethane Finish Coat** 

Unpigmented Baking Finish

Clear Chemical-Resistance Epoxy-Phenolic Baking Finish

General Purpose Epoxy Flash-Dry Primer

**Epoxy Gloss Enamel** 

White Fast Baking Epoxy-Urea Enamel

General Purpose Epoxy Flash-Dry Primer

**Epoxy Flat White Baking Enamel** 

Clear Fast Baking Epoxy-Urea Finish for Brass

**Epoxy Water-Soluble Maintenance Enamels** 

One Component, Stain-Resistant Baked Enamel

Thermosetting Acrylic Appliance Finish

Clear Coating for Metal

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Heat-Resistant Metal Topcoat

White Baking Enamel

White Baking Enamel for Metal Decorating

Acrylic General-Purpose Enamel

White High-Gloss Water-Reducible Industrial Baking Enamel

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Latex Semigloss White or Light Tint Base Enamel

Latex Interior Flat Enamel

Polyester High Gloss Metallized Enamel

Polyurethane Gloss White Enamel

Acrylic Aluminum Enamel

Alkyd Floor Enamel

Acrylic Color-Retentive, General-Purpose Enamel

Acrylic Gloss White Enamel

Acrylic Gloss Black Enamel

Acrylic Tintable Eggshell Enamel

Acrylic Water-Reducible Enamel

Acrylic Latex Enamel

Acrylic-Urethane White Enamel

Alkyd White Enamel

Alkyd Red Enamel

Alkyd Blue Enamel

Alkyd Black Enamel

Alkyd Interior Orange Enamel

Alkyd Interior Toluidine Red Enamel

Alkyd Chrome Yellow Enamel

**Epoxy Enamel** 

**Epoxy-Polyamide Enamel** 

**Epoxy-Polyester Enamel** 

Epoxy-Urea/Formaldehyde Enamel

Latex White Enamel

Latex Eggshell Enamel

Polyester White Enamel

Triamino Ester White Enamel

Acrylic White Spray Enamel

Acrylic-Modified Alkyd Spray Enamel

Alkyd Aerosol Enamel

Polyester White Spray Enamel

#### Formulation

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Acrylic Flat Wall Paint

Alkyd Flat Wall Paint

Latex Flat Wall Paint

PV Acetate Interior Flat Paint

PV Acrylic Interior Flat Wall Paint

Styrene-Acrylic Interior Flat Paint

Styrene-Acrylic Ceiling or Wall Paint

Styrene-Acrylic Interior Ceiling Paint

Vinyl Acetate Exterior-Interior Flat Paint

Vinyl-Acrylic Interior Flat Wall Paint

Acrylic White Interior Topcoat

Alkyd Interior White Finish Coat

Ethylene Vinyl Acetate Emulsion Paint

Latex Interior White Flat Paint

PV Acetate Interior White Paint

Acrylic Interior Enamel

Alkyd Interior Enamel

Latex Interior Enamel

Acrylic Dry-Ground Deep Tone Paint

Acrylic Economy Tint Base

Acrylic Interior Flat Universal Tint Base

Acrylic Interior Eggshell Tint Base

Latex Tint Base

Vinyl Acrylic Flat Tint Base

Styrene-Acrylic Interior Textured Finish

Vinyl Acetate Textured Paint

Latex Interior-Exterior Emulsion Paint

#### Formulae

17. Varnishes, Lacquers and Wood Finishes

**Butyrate-Acrylic Wood Lacquers** 

Acrylic Aqueous Lacquer

Black Acrylic Lacquer

Thermoplastic Air-Dry Acrylic/Butyrate Wood Lacquer

Gloss White Flexible Butyrate Lacquer

Pigmented Nitrocellulose Lacquer

Nitrocellulose Lacquer

**Butyrate-Amino Paper Lacquers** 

Cellulose Nitrate Paper Lacquer

Alkyd Overprint Varnish

Epoxy Ester Floor Varnish

Acrylic Tradesales Brushing Varnish

Acrylic Wood Finish

Alkyd Modified Flexible Polyester Wood Coating

Catalyzed Wood Topcoat

Polyester, Clear, Force-Drying Wood Finish

**Unsaturated Polyester Wood Coating** 

Vinyl Acrylic Wood Finish for Spray

# 18. Interior Gloss White Enamels

Interior Gloss White Nonyellowing Enamel (Acrylic-Alkyd)

Interior Gloss White Enamel (Alkyd)

Interior Gloss White Enamel (TT-E-506C) (Alkyd)

Interior Gloss White Architectural Enamel (Alkyd)

Interior Gloss White Fast-Drying Enamel (Alkyd)

Interior Gloss White Fast-Drying Enamel (Alkyd)

Interior Gloss White Fast-Drying Enamel (Alkyd)

Interior Gloss White High-Hiding Architectural Enamel (Alkyd)

Interior Gloss White High-Quality Easy-Working Enamel (Alkyd)

Interior Gloss White High-Quality Nonyellowing Enamel (Alkyd)

Interior Gloss White Low-Cost Enamel (Alkyd)

Interior Gloss White Nonpenetrating Enamel (Alkyd)

Interior Gloss White Odorless Architectural Enamel (Alkyd)

Interior Gloss White Top-Quality Enamel (Alkyd)

Interior Gloss White Enamel (Alkyd/Hydrocarbon Resin)

Interior Gloss White Enamel (Two-Component: Epoxy-Curing Agent)

Interior Gloss White Enamel (Two-Component: Epoxy-Polyester)

Interior Gloss White General-Purpose Enamel (Hydrocarbon Resin/Alkyd)

Interior Gloss White Enamel (Oxazoline)

Interior Gloss White Fast-Drying, Mildew-Resistant Enamel (Oxazoline)

Interior Gloss White Painters Enamel (Oxazoline-Alkyd)

Interior Gloss White Fast-Drying Enamel (Urethane)

Interior Gloss White General-Purpose Color-Retentive Enamel (Urethane)

Interior Gloss White Fast-Drying Utility Enamel (Vinyl Toluene)

# 19. Primers

Red Iron Oxide Silicone Primer

Basic Silico-Chromate Micaceous Iron Oxide Primer for Shop-Coat Application

Primer for Use in Conjunction with Micaceous Iron Oxide Corrosion-Resistant Top Coat

White Metal Primer

General Purpose Flash Dry Primer (Epoxy)

Zinc-Rich Primer

White Brushing Primer

Brown Aerosol Primer

Zinc Chromate Primer

Zinc Dust Primer

Quick-Set Primer (PVAC)

**Exterior Primer** 

Thixotropic Zinc Chromate Primer for Two-Coat Maintenance Systems

Zinc Rich Primer

General-Purpose or Elevated-Temperature Metal Primer

One-Component Metal Primer

**Universal Metal Primers** 

Exterior Primer for Nonstaining Woods

20. Interior Semigloss Enamels

Interior Semigloss White Enamel (Acrylic)

Interior Medium Glass 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)

# **About NIIR**

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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 varies 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.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES , 106-E, Kamla Nagar, New Delhi-110007, India. Email: npcs.india@gmail.com Website: NIIR.org

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