

Handbook on Paints and Enamels

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About the Book

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.

Contents

1. Exterior Paints

Rapid-Drying Stain and Blister-Resistant House Paint

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Stain and Blister Resistant House Paint
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Mildew-Resistant Exterior White Paint
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Latex Semigloss Enamel
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Shake and Shingle Paint
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Exterior Acrylic Tint Base
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Formulation of Exterior Paints

2. Exterior White Paints

Exterior Flat White Paint (Alkyd)
Exterior Flat White Paint (MIL-P-52324) (Alkyd)
Exterior Flat White House Paint (Alkyd)
Exterior Flat White Paint For Cedar Shakes or Masonary Surfaces (Alkyd)
Exterior Flat White Paint (Linseed Oil)
Exterior Flat White Chalking House Paint (Linseed Oil)
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)
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Exterior White House Paint (Alkyd/Menhaden Oil)
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)
Exterior White One- Coat - Hiding House Paint (Linseed Oil)
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)
Exterior White House Paint (Urethane)
Exterior White Low-Cost Fume-Proof House Paint (Urethane)

Formulation

3. Exterior Aluminum Paints and Enamels

Exterior General Purpose Aluminum Paint (Alkyd/Hydrocarbon Resin)
Exterior Aluminum Paint (Alkyd/Oil Polymer/Phenolic)
Exterior Aluminum Paint (Alkyd/Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Hydrocarbon Resin)
Exterior Aluminum Paint (Oil Polymer/Hydrocarbon Resin)
Exterior Aluminum Paint (Oil Polymer/Hydrocarbon Resin)
Exterior Aluminum Paint (Oil Polymer/Hydrocarbon Resin)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Aluminum Paint (Oil Polymer/Phenolic)
Exterior Gloss Aluminum Ready- Mixed Fast- Drying Paint (Oxazoline)
Exterior Aluminum Enamel (Oxazoline)

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Exterior Semigloss Gray Enamel (TT-E-490B) (Alkyd)
Exterior Gloss Black Enamel (TT-E-489F) (Alkyd)
Exterior Gloss Black Low- Odor Enamel (Two- Component: Epoxy- Polyester)
Exterior Gloss Black Low- Odor Enamel (Two- Component: Epoxy- Polyester)
Exterior Gloss Brown Trim Enamel (Alkyd)
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)
Exterior Gloss Red Low-Odor Enamel (Two Component: Epoxy- Polyester)
Exterior Gloss Yellow Low-Odor Enamel (Two-Component: Epoxy- Polyester)
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Exterior Battleship Gray Enamel (Styrene-Acrylate/Chlorinated Paraffin)
Exterior Green Rapid-Drying (Alkyd)
Exterior Green Trim and Trellis Enamel (Linseed Oil)
Exterior Green Enamel (Styrene-Acrylate)
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Interior Flat White Paint (Acrylic)
Interior Flat White Paint (Acrylic)
Interior Flat White Paint (Acrylic)

Interior Flat White Paint (Acrylic)
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Interior Flat White Paint (Latex)
Interior Flat White Paint (Vinyl Acetate)
Interior Flat White Paint (Vinal Acetate)
Interior Flat White Plant (Vinyl Acetate)
Interior Flat White Paint (Vinyl Acetate)
Interior Flat White Paint (Vinyl Acetate)
Interior Flat White Paint (Vinyl Acetate)
Interior Flat White Paint (Vinyl Acetate)
Interior Flat White Paint (Vinyl Acetate-Acrylic)
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Interior Flat White Paint (Vinyl Acetate-Acrylic)
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Interior Flat White Paint (Vinyl Acetate-Acrylic)
Interior Flat White Paint (Vinyl Acetate-Acrylic)
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Interior Flat White Paint (Alkyd)
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Interior Flat White Odorless High-Quality Paint (Alkyd)
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Interior Flat White Odorless Wall Enamel (Alkyd)
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Interior Flat White Thixotropic 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)
Interior Flat Light Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Flat Medium Tint Base Paint (Vinyl Acetate-Acrylic)
Interior Flat Dark Tint Base Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat Tint Base Paint (Vinyl Acetate)
Interior Low Cost Flat Tint Base Paint (Vinyl Acetate-Acrylic)

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Interior High Quality Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality Flat White Wall Paint (Acrylic)
Interior High Quality Flat White Wall Paint (Acrylic)
Interior High Quality Flat White Wall Paint (Acrylic)
Interior High Quality Flat White Wall Paint (Acrylic)
Interior High Quality Flat White Wall Paint (Acrylic)
Interior High Quality Flat White Wall Paint (Vinyl Acetate-Acrylic)
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Interior High Quality High Hiding Flat White Paint (Vinyl Acetate-Acrylic)
Interior High Quality High Hiding Flat White Paint [Vinyl Acetate-Acrylic(S)]
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Interior High Quality Lower Cost Flat White Paint (Latex)
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Exterior White Masonry Paint (Styrene-Butadiene)
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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
 Alkyd Coil Coating Enamel
 Polyester White Coil Coating
 Acrylic Aerosol Metal Paints
 Alkyd Airless Spray Metal Paint
 Alkyd Aluminum Paint
 Alkyd Metal Paint
 Alkyd Weldable Metallically Pigmented Coating
 Chlorinated Rubber Steel Paint
 Metal Paint

Formulae

10. Interior Flat White and Tint Base Paints

Interior Flat White and Tint Base Paint (Acrylic)
 Interior Flat White and Tint Base Paint (Styrene-Butadiene)
 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)
 Interior Flat White and Tint Base Paint (Vinyl Acetate)
 Interior Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
 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)
Interior Flat White and Tint Base Paint (TT-P-29J) (Vinyl Acetate-Acrylic)
Interior Flat White and Tint Base Paint (Acrylic)
Interior Flat White and Tint Base Wall Paint (Vinyl Acetate-Acrylic)
Interior Flat White and Tint Base Wall Paint (Vinyl Acetate-Acrylic)
Interior Flat White and Light Tint Base Paint (Vinyl Acetate Copolymer)
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)
Interior Flat White and Light Tint Base Paint (Vinyl Acetate-Acrylic(s))
Interior Flat White and Light Tint Base Wall Paint (Vinyl Acetate)
Interior Flat White and Light Tint Base Wall Paint (Vinyl Acetate-Acrylic)
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Interior High Hiding Flat White and Light Tint Base Paint (Vinyl Acetate-Acrylic)
Interior High Sheen Flat White and Tint Base Paint (Vinyl Acetate-Acrylic)
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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 Paint (Vinyl Acetate-Acrylic)
 Interior Low Cost Flat White Paint (Vinyl Acetate-Acrylic)
 Interior Low Cost Flat White Paint (Vinyl Acetate-Acrylic)
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 Interior Low Cost Flat White Paint (Vinyl Acetate-Acrylic)
 Interior Low Cost Flat White Paint (Vinyl Acetate-Acrylic)
 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)

14. 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
 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
White Baking Enamel
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

15. Enamels

Alkyd Enamel
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

16. Interior Paints

Flat Wall Paints
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

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 Semigloss White Enamel (Acrylic)
Interior Semigloss White Enamel (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)

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, Market Research, Manufacturing Process, Machinery, Raw Materials, Project Feasibility, Investment Opportunities, Technical Consultancy and Startup Help.

NPCS also publishes process technology books, technical books, startup books, directory, business database, detailed project reports and market research reports.

Our Detailed Project Report aims at providing all the critical data required by entrepreneurs for starting new business ventures.

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