

# Handbook on Paints and Enamels

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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.

1. 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  
Stain and Blister Resistant House Paint  
Water-Soluble Linseed Oil Paints  
Alkyd-Modified Acrylic House Paint with Zinc Oxide  
Exterior Ranch Red House Paint  
Flat Exterior White Paint  
Exterior Flat  
Exterior White Paint  
Exterior White Latex House Paint  
Exterior White Paint—Alkyd Modified  
White Exterior High Solids Acrylic Latex Paint  
Java Brown Exterior Finish  
Mildew-Resistant Exterior White Paint  
Exterior Deep Green-Modified with Alkyd  
Semigloss Emulsion Paint  
Exterior Semigloss Silicone-Alkyd Copolymer  
White Polyvinyl Acetate Latex House Paint  
Exterior White Paint  
Exterior White Primer  
Self-Priming Exterior White Paint  
Polyvinyl Acetate Latex Paint  
Exterior Copolymer Polyvinyl Acetate Emulsion Paints  
Exterior Acrylic Emulsion Paints  
Exterior Ethylene-Vinyl Acetate Emulsion Paints  
High-Gloss White Exterior  
Semigloss White Exterior  
High Gloss Green Exterior Paint  
Low-Gloss White Exterior  
Mildew-Resistant Paint  
Architectural Alkyd White Enamel  
Alkyd Architectural Gloss Enamel  
Alkyd Green Trim and Trellis Enamel  
Fast-Drying, High-Gloss Enamel-Interior and Exterior  
Exterior Silicone Alkyd Copolymer Gloss Enamel  
White Semigloss Enamel  
Isophthalic Enamelized House Paint  
Exterior Semigloss Latex Trim Paint  
Exterior White Enamel  
Yellow Trim Enamel  
Exterior Vinyl-Acrylic Topcoat Enamel  
Latex Trim Paint  
Latex Semigloss Enamel  
White Gloss Enamel  
Vinyl/Acrylic Semigloss Latex Enamel

White Exterior Gloss Trim  
Acrylic Emulsion Gloss Latex Enamel  
Low-Cost Shingle and Shake Paint  
Shake and Shingle Paint  
Alkyd Modified Latex House Paint  
Self-Priming Exterior Latex Light Tint Base  
Exterior Tint Base  
Exterior Light Tint Base-Alkyd Modified  
Exterior Deep-Tone Tint Base  
Exterior Acrylic Latex Tint Base  
Tint Base Exterior Gloss Trim  
Exterior Acrylic Tint Base  
Exterior Poly Vinyl Acetate Tint Base  
Exterior Latex Paint Tint Base

## 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)  
Exterior White Satin and Blister Resistant House Paint (Alkyd)  
Exterior White One - Coat Chalk - Resistant High - Quality House Paint (Alkyd/Chlorinated Paraffin/Linseed Oil)  
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 Gloss Aluminum Ready- Mixed Fast- Drying Paint (Oxazoline)  
Exterior Aluminum Enamel (Oxazoline)

### 4. Exterior Tinted Enamels

Exterior Semigloss Blue Enamel (TT-E-490B) (Alkyd)  
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)  
Exterior Gloss Yellow Enamel (Oxazoline)  
Exterior Gloss Yellow Rapid-Drying Trim Enamel (Oxazoline)  
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)  
Exterior Tile Red Enamel (Styrene-Acrylate)

### 5. Interior Flat White Paints and Enamels

Interior Flat White Paint (Acrylic)  
Interior Flat White Paint (Acrylic)  
Interior Flat White Paint (Acrylic)  
Interior Flat White Paint (Acrylic)  
Interior Flat White Paint (Acrylic)

Interior Flat White Paint (Acrylic/Alkyd)  
Interior Flat White Paint (Latex)  
Interior Flat White Paint (Vinyl Acetate)  
Interior Flat White Paint (Vinal 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)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (Vinyl Acetate-Alkyl Maleate)  
Interior Flat White Paint (Vinyl Acetate-Ethylene)  
Interior Flat White Paint (Vinyl Chloride-Vinyl Acetate-Ethylene)  
Interior Flat White Paint (T.T.P-29 H) (Vinyl Acetate-Acrylic)  
Interior Flat White Paint (T.T.P-29H, Type I) (Vinyl Acetate-Acrylic)  
Interior Medium Quality Flat White Paint (Acrylic)  
Interior Medium Quality Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Second Line Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Professional Painter Spray Application Flat White Paint (Vinyl Acetate-Acrylic)  
Interior Flat White Enamel (Acrylic)  
Interior Flat White Paint (Alkyd)  
Interior Flat White Paint (Alkyd)  
Interior Flat White Paint (Alkyd)  
Interior Flat White Paint (Alkyd)  
Interior Flat White Inexpensive Paint (Alkyd)  
Interior Flat White Low-cost Paint (Alkyd)  
Interior Flat White Low-cost Paint (Alkyd)  
Interior Flat White Low-cost Odorless Paint (Alkyd)  
Interior Flat White Low-cost Wall Paint (Alkyd)  
Interior Flat White Odorless Paint (Alkyd)  
Interior Flat White Odorless Paint (TT-P-30D) (Alkyd)  
Interior Flat White Odorless High-Quality Paint (Alkyd)  
Interior Flat White Odorless Wall Paint (Alkyd)  
Interior Flat White Thixotropic Paint (Alkyd)  
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)  
Interior Flat White Odorless Enamel (Alkyd)  
Interior Flat White Odorless Wall Enamel (Alkyd)  
Interior Flat White One-Coat High-Quality Enamel (Alkyd)  
Interior Flat White Thixotropic Enamel (Alkyd)  
Interior Flat White Thixotropic Enamel (Alkyd)  
Interior Flat White Washable Low-Odor Enamel (Alkyd)

#### 6. Interior Flat Tint Base Paints

Interior Flat Tint Base Paint (Acrylic)  
Interior Flat Tint Base Paint (Vinyl Chloride-Vinyl Acetate-Ethylene)  
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)

#### 7. Interior High Quality Flat White Paints

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)  
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

Exterior White Masonry Paint (Styrene-Butadiene)  
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)

## 9. Metal Paints

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

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

## 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.

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.

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