# Formulas for Manufacturing of Paints and Enamels

(Exterior Paints, Exterior White Paints, Exterior Tinted Enamels, Interior Flat White Paints and Enamels, Interior Flat Tint Base Paints, Metal Paints, Speciality Paints, Masonry Paints, Industrial Paints, Enamels, Alkyd Floor Enamel, Polyester White Enamel, Interior Paints)

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# **Introduction**

Paint is any liquid, liquefiable, or mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture to objects. Paint can be made or purchased in many colors—and in many different types, such as watercolor, synthetic, etc. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid.



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.



### **Market Outlook**

The Indian paint market will grow with a CAGR of around 14% during 2015-16 to 2019-20.arket Outlook.

The paints industry in India has been growing at the rate of around 12% a year. The paints market has crossed the Rs. 135 bn mark.



By volume, the market is estimated at 1.4 mn tonne which is growing at an average annual growth of over 6 to 8% (12% by value). The unorganized sector, shrunk in the recent years, still commands a share of 46% (by volume) and 35% (by value).



The demand for decorative paints is correlated with growth in housing and construction sectors, while a substantial quantity is used also for applying paints to the existing building. While the decorative paints registered a modest growth, industrial paints segment showed a relatively higher growth rate. The government and associated agencies account for nearly 35% of the total demand. The offtake depends on the allocations for construction activities.



The market for industrial paints (30% of the overall market) is growing faster than that for decorative paints. The paints majors were switching over to industrial paints sensing better prospects of the segment. The industrial paints are produced principally by the organised sector as this segment is relatively more technology driven.



# Import & Export of Paints

# Officially Recorded Production, Import & Export of Paints

	Production	Import		Export	
Year	(In '000 MT)	(Rs. in Billion)	(In '000 MT)	(Rs. in Billion)	(In '000 MT)
2011-12	791.23	93.18	384.34	68.64	510.97
2012-13	783.71	77.08	338.12	113.47	569.30
2013-14	780.68	92.04	374.21	154.55	619.73
2014-15	886.58	98.21	395.3	172.06	651.14



#### **Demand: Past and Future**

Demand : Past and Future				
Year	(In '000 Metric Tonne)			
1990-91	560			
2000-01	1034			
2001-02	931			
2002-03	990			
2003-04	1100			
2004-05	1240			
2005-06	1410			
2006-07	1605			
2007-08	1875			
2008-09	2023			
2009-10	2766			
2010-11	2935			
2011-12	3018			
2012-13	2951			
2013-14	2977			
2014-15	3352			
2015-16	3443			
2016-17	3650			
2017-18	3869			
2018-19	4101			
2019-20	4347			
2024-25	6097			



The decorative paints & coatings market is projected to reach USD 114.72 Billion by 2021, at a CAGR of 5.7% from 2016 to 2021.



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- 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 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 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)
- ➤ 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 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
- > Chlorinaed 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 Hinding 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)
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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 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 (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)



Paint Formulation, Paint Formulation & Coating Formulation, Formulation of Paints, Paint Formulation Guide, Formulas for Paint, Starting Formulation of Paints, Formulation of Paints and Coatings, Paint and Coating Formulation, Paint Formulas, Formulae of Enamels, Enamels Formulation, Formulation of Enamels, Enamels Formulation Guide, Formulation of Enamels, Formulas for Enamels, Enamels Formulas, Exterior Paint Formulation, Formulation of Exterior Paint, Exterior Paint Formulation Guide, Exterior Paint Formula, Formulae of Exterior Paint, Exterior White Paint Formulation, Formulae of Exterior White Paint, Exterior White Paint Formulation Guide, Formulas for Exterior White Paint, Exterior White Paint Formula, Flat Exterior Paint Formulation, Formulae of Flat Exterior Paint, Flat Exterior Paint Formulation Guide, Formulas for Flat Exterior Paint, Flat Exterior Paint Formula, Exterior Alkyd Paint Formulation, Formulae of Exterior Alkyd Paint, Exterior Alkyd Paint Formulation Guide, Formulas for Exterior Alkyd Paint, Exterior Alkyd Paint Formula, Green Trim Paint Formulation, Formulae of Green Trim Paint, Green Trim Paint Formulation Guide, Formulas for Green Trim Paint, Green Trim Paint Formula, Exterior Aluminum Paints and Enamels Formulation, Formulae of Exterior Aluminum Paints and Enamels, Exterior Aluminum Paints And Enamels Formulation Guide, Formulas for Exterior Aluminum Paints and Enamels, Exterior Aluminum Paints and Enamels Formula, Exterior Aluminum Paints Formulation, Formulae of Exterior Aluminum Paints, Exterior Aluminum Paints Formulation Guide, Formulas for Exterior Aluminum Paints,



Exterior Aluminum Paints Formula, Exterior Tinted Enamels Formulation, Formulae of Exterior Tinted Enamels, Exterior Tinted Enamels Formulation Guide, Formulas for Exterior Tinted Enamels, Exterior Tinted Enamels Formula, Interior Flat White Paints Formulation, Formulae of Interior Flat White Paints, Interior Flat White Paints Formulation Guide, Formulas for Interior Flat White Paints, Interior Flat White Paints Formula, Interior Flat Tint Base Paints Formulation, Formulae of Interior Flat Tint Base Paints, Interior Flat Tint Base Paints Formulation Guide, Formulas for Interior Flat Tint Base Paints, Interior Flat Tint Base Paints Formula, Interior High Quality Flat White Paints Formulation, Formulae of Interior High Quality Flat White Paints, Interior High Quality Flat White Paints Formulation Guide, Formulas for Interior High Quality Flat White Paints, Interior High Quality Flat White Paints Formula, Exterior Masonry Paints Formulation Guide, Formulas for Exterior Masonry Paints, Exterior Masonry Paints Formula, Metal Paints Formulation, Formulae of Metal Paints, Metal Paints Formulation Guide, Formulas for Metal Paints, Metal Paints Formula, Industrial Paints Formulation, Formulae of Industrial Paints, Industrial Paints Formulation Guide, Formulas for Industrial Paints, Industrial Paints Formula, Enamels Interior Paints Formulation, Formulae of Enamels Interior Paints, Paint Manufacturing Process, Paints Manufacturing, Process of paint production, paint manufacturing process, paint making formula,



Paint making process, Paint Production Process, Process for preparing paints, Enamels Interior Paints Formulation Guide, Formulas for Enamels Interior Paints, Enamels Interior Paints Formula, Flat Exterior Paint, Exterior Alkyd Paint, Green Trim Paint, Exterior White Paint, Exterior Aluminum Paints and Enamels, Exterior Tinted Enamels, Interior Flat White Paints and Enamels, Interior Flat Tint Base Paints, Interior High Quality Flat White Paints, Exterior Masonry Paints and Concrete Enamels, Metal Paints, Interior Flat White and Tint Base Paints, Speciality Paints, Masonry Paints, Interior Low Cost Flat White Paints, Industrial Paints, Enamels, Interior Paints, Varnishes, Lacquers and Wood Finishes, Interior Gloss White Enamels, Primers, Interior Semigloss Enamels, Interior High Semigloss White and Tint Base Enamel (Alkyd/Acrylic), Npcs, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance,



Best Small and Cottage Scale Industries, Startup India, Stand Up India, Small Scale Industries, New Small Scale Ideas for Enamels Formulation, Paint Formulation Ideas You Can Start On Your Own, Small Scale Enamels Formulation, Guide to Starting and Operating Small Business, Business Ideas for Enamels Formulation, How to Start Paint Formulation, Starting Enamels Formulation, Start Your Own Paint Formulation, Enamels Formulation Plan, Business Plan for Enamels Formulation, Small Scale Industries in India, Paint Formulation Based Small Business Ideas in India, Small Scale Industry You Can Start on Your Own, Business Plan for Small Scale Industries, Profitable Small Scale Manufacturing, How to Start Small Business in India, Free Manufacturing Business Plans, Small and Medium Scale Manufacturing, Profitable Small Business Industries Ideas, Business Ideas for Startup, Business Guidance to Clients, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project,



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(Exterior Paints, Exterior White Paints, Exterior Tinted Enamels, Interior Flat White Paints and Enamels, Interior Flat Tint Base Paints, Metal Paints, Speciality Paints, Masonry Paints, Industrial Paints, Enamels, Alkyd Floor Enamel, Polyester White Enamel, Interior Paints)

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# NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2008 COMPANY



#### Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



#### What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Business Plan
- Industry Trends
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- O Entrepreneur India (An Industrial Monthly Journal)



#### How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



### **Our Approach**

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

**Report Compilation** 



#### Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- O NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



#### **Sectors We Cover**

- O Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- O Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- O Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling



- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- O Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



- Copper & Copper Based Projects
- Dairy/Milk Processing
- O Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- O Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing



- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- O Inks, Stationery And Export Industries



- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- O Organic Farming, Neem Products Etc.



- O Paints, Pigments, Varnish & Lacquer
- O Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- O Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- O Plantations, Farming And Cultivations
- O Plastic Film, Plastic Waste And Plastic Compounds
- O Plastic, PVC, PET, HDPE, LDPE Etc.



- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- O Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals



- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral

Water)

Wire & Cable



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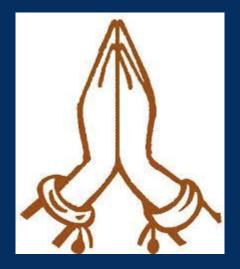


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