

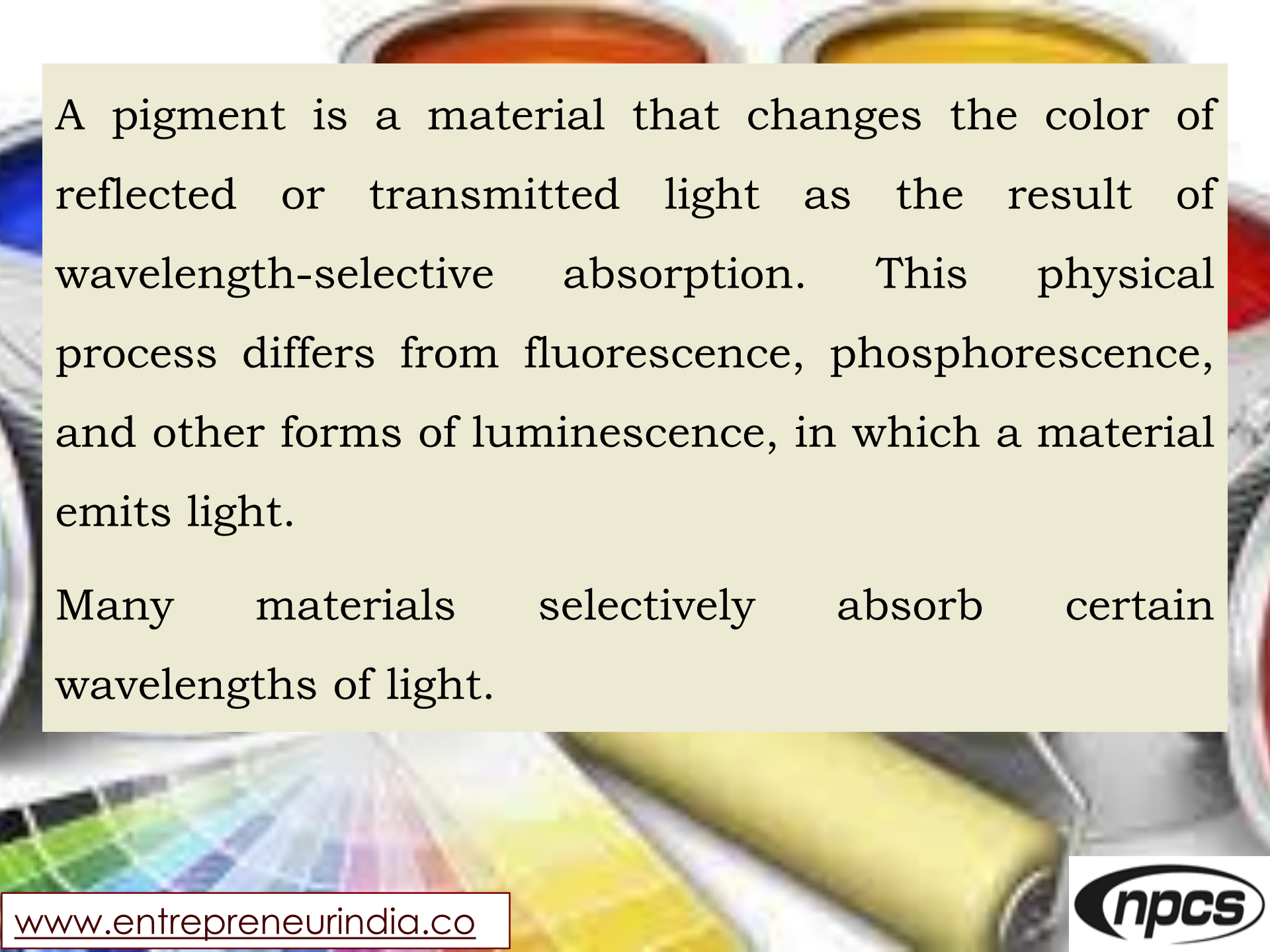


# Formulation and Manufacturing Process of Paints, Pigments, Varnishes and Enamels

*(Paint Testing, Wood Coatings, Oxygenated Solvents, Plasticizers, Pigment Dispersion, Colored Pigments, Varnishes, Lacquers and Floor Finishes, Exterior White Enamels, Floor Paints and Enamels, Enamel Paints, Marine Paints)*


# 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.



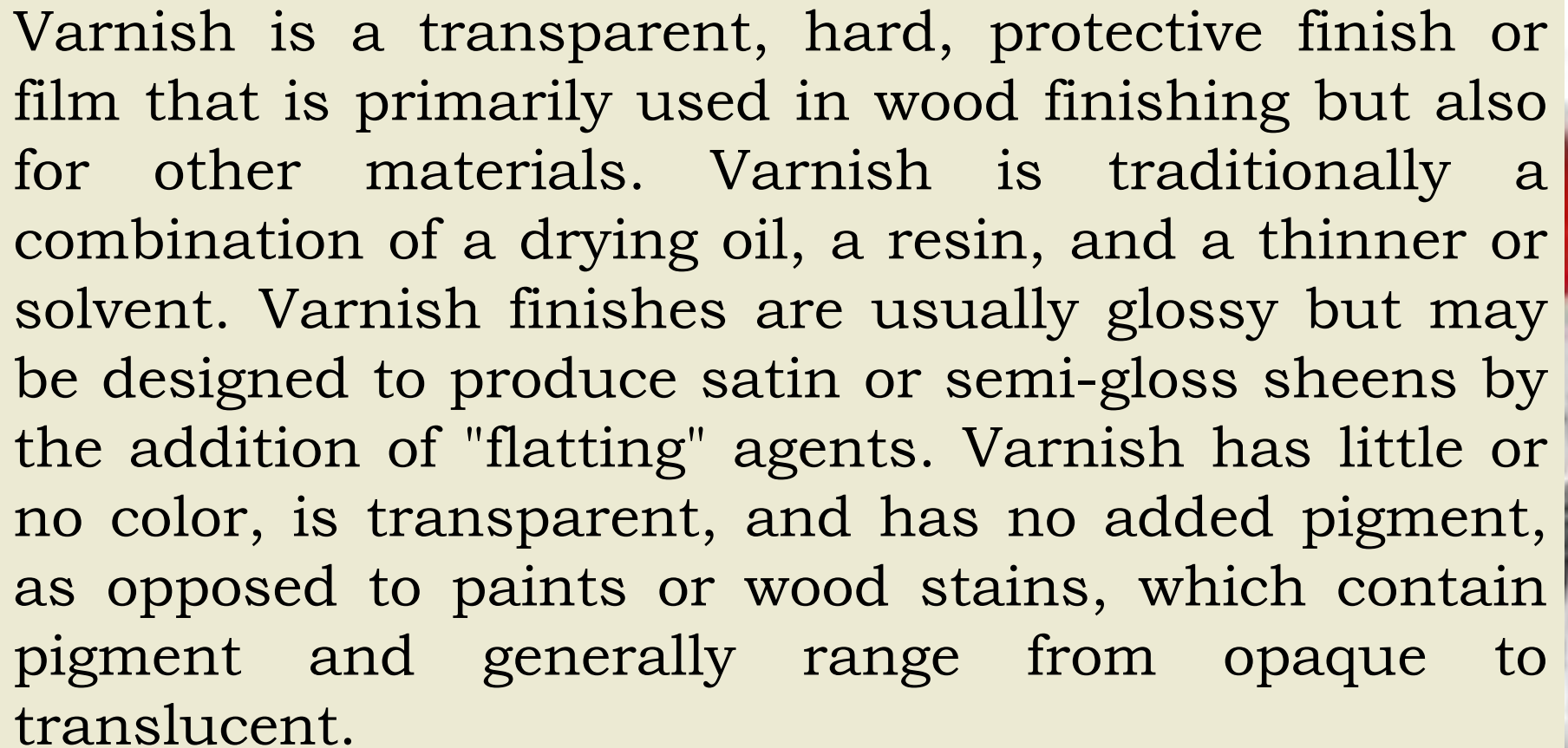
A pigment is a material that changes the color of reflected or transmitted light as the result of wavelength-selective absorption. This physical process differs from fluorescence, phosphorescence, and other forms of luminescence, in which a material emits light.

Many materials selectively absorb certain wavelengths of light.


The background of the slide features a collage of paint-related items. At the top, there are two circular containers, one with orange paint and one with yellow paint. Below the text, there is a color chart with various colored squares. In the foreground, a yellow paint roller is visible, and a metal mesh strainer is partially seen. The overall theme is related to pigments and painting.

Materials that humans have chosen and developed for use as pigments usually have special properties that make them ideal for coloring other materials. A pigment must have a high tinting strength relative to the materials it colors. It must be stable in solid form at ambient temperatures.

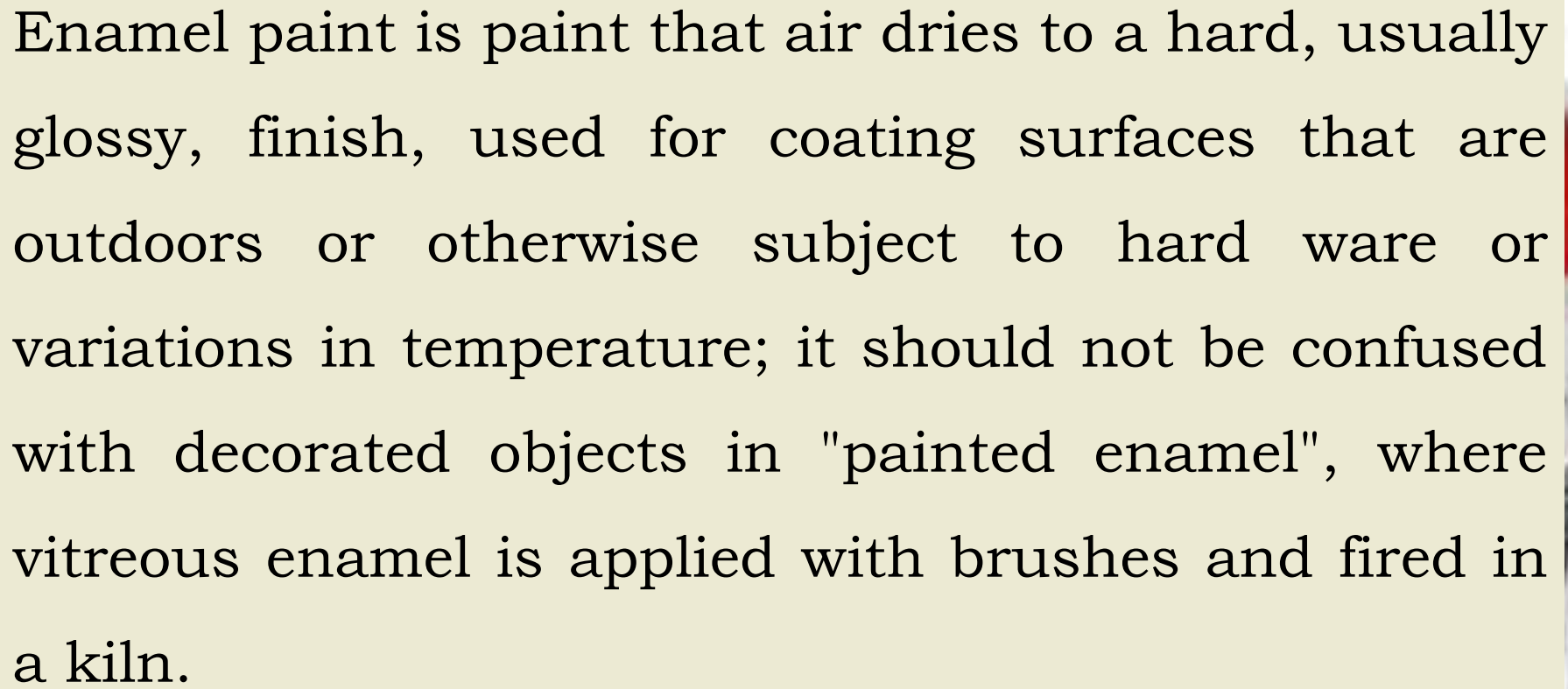


The background of the slide features a close-up of several paint cans in various colors, including red, yellow, and blue. In the bottom left corner, there is a color calibration chart with a grid of colored squares. The text is overlaid on a semi-transparent white box in the center of the image.

Varnish is a transparent, hard, protective finish or film that is primarily used in wood finishing but also for other materials. Varnish is traditionally a combination of a drying oil, a resin, and a thinner or solvent. Varnish finishes are usually glossy but may be designed to produce satin or semi-gloss sheens by the addition of "flatting" agents. Varnish has little or no color, is transparent, and has no added pigment, as opposed to paints or wood stains, which contain pigment and generally range from opaque to translucent.



Varnishes are also applied over wood stains as a final step to achieve a film for gloss and protection. Some products are marketed as a combined stain and varnish.

The background of the slide features a close-up view of several paint cans in various colors, including orange, yellow, and blue. In the lower-left corner, there is a color calibration chart with a grid of small color patches. The text is overlaid on a semi-transparent yellow rectangular area.


Enamel paint is paint that air dries to a hard, usually glossy, finish, used for coating surfaces that are outdoors or otherwise subject to hard ware or variations in temperature; it should not be confused with decorated objects in "painted enamel", where vitreous enamel is applied with brushes and fired in a kiln.

The name is something of a misnomer, as in reality, most commercially available enamel paints are significantly softer than either vitreous enamel or stoved synthetic resins, and are totally different in composition; vitreous enamel is applied as a powder or paste and then fired at high temperature. There is no generally accepted definition or standard for use of the term enamel paint, and not all enamel-type paints may use it.



## Market Outlook

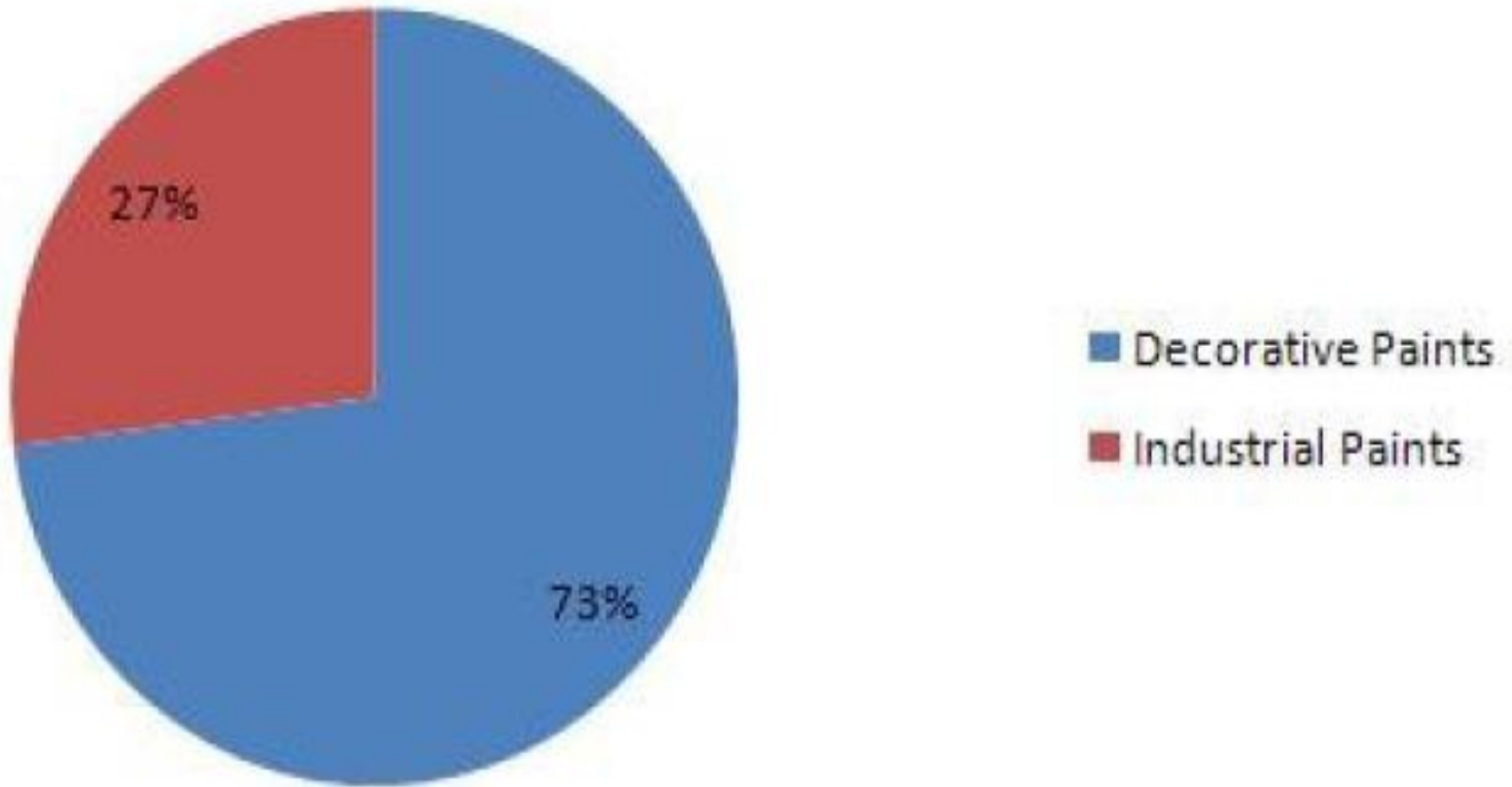
The market size of the Indian paints sector has been pegged at Rs 170 bn in value terms and is very fragmented. While in value terms, the industry grew by 17% to 18% in FY09, in volume terms, the growth stood at 9% YoY, the lowest in the last five years. The per capita consumption of paints in India stands at 0.5 kg per annum as compared to 1.6 kgs in China and 22 kgs in the developed economies. India's share in the world paint market is just 0.6%.


The background of the slide features a close-up view of several paint cans in various colors, including orange, yellow, and blue. In the lower-left corner, there is a color chart with a grid of different color swatches. The text is overlaid on a semi-transparent yellow rectangular area.

Indian paint market is expected to reach 49,545 INR Crs by 2016 - 17, decorative market will continue to grow and would have higher share compared to industrial paints.

The decorative paint market is expected to witness CAGR of 12.7 per cent and the industrial paint market CAGR of 9.5 per cent.

# Industry Segments



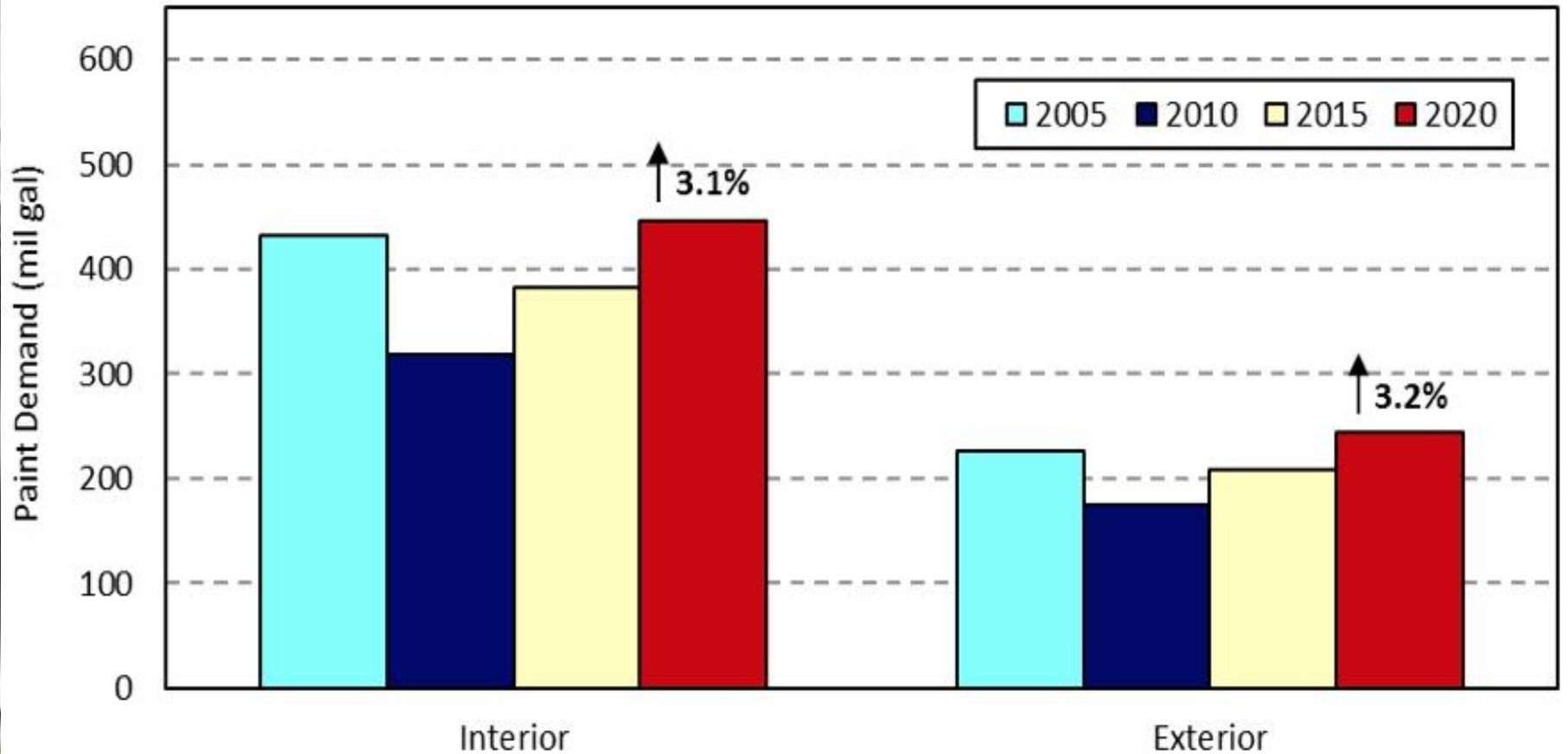


The Indian paint market will grow with a CAGR of around 14% during 2015-16 to 2019-20.

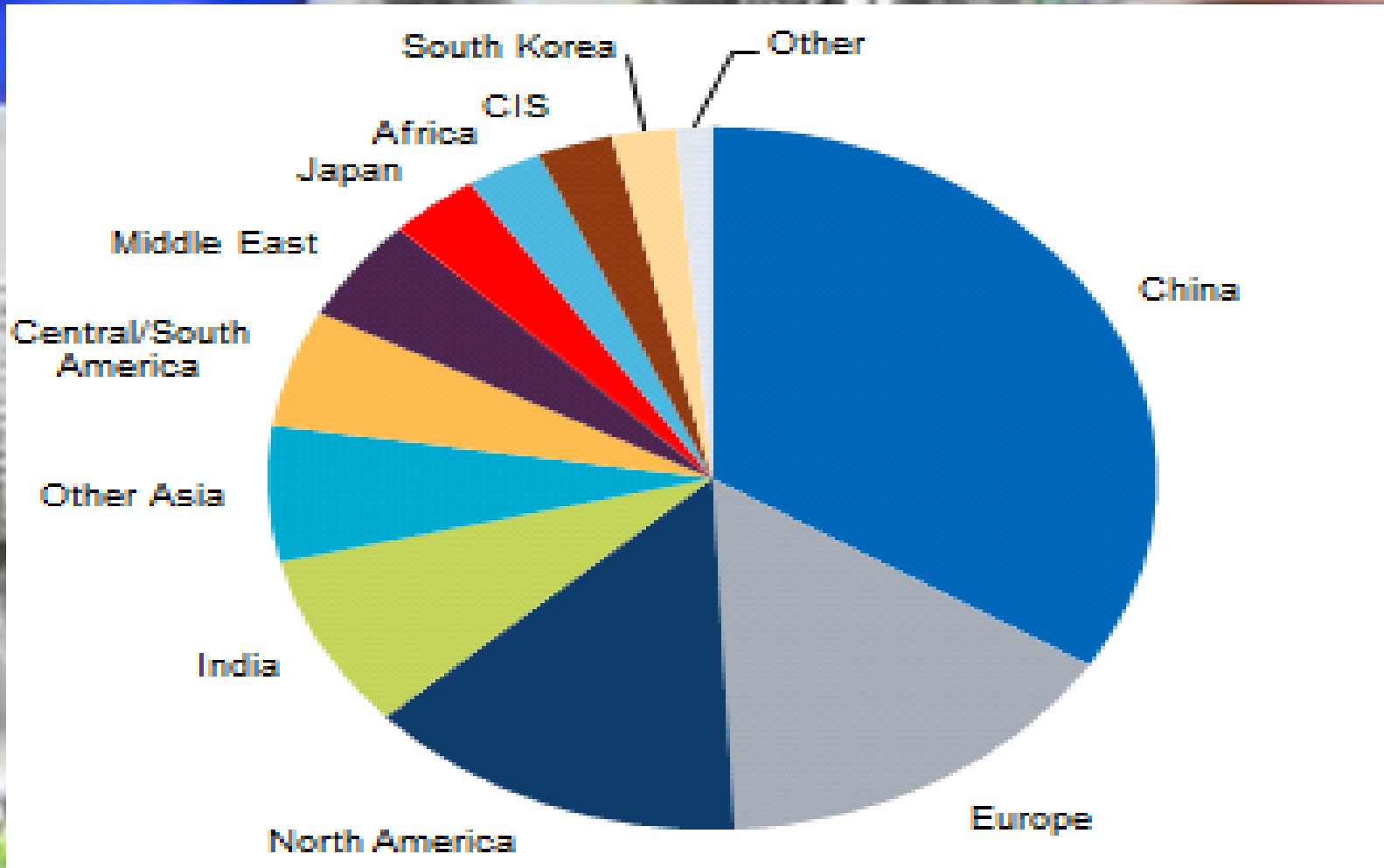
Demand for interior paint is forecast to grow 2.9% per year to 535 million gallons in 2020.




# Interior Paint in the Residential Market to offer Best Growth opportunities through 2020



# Global Production of Paints and Coatings

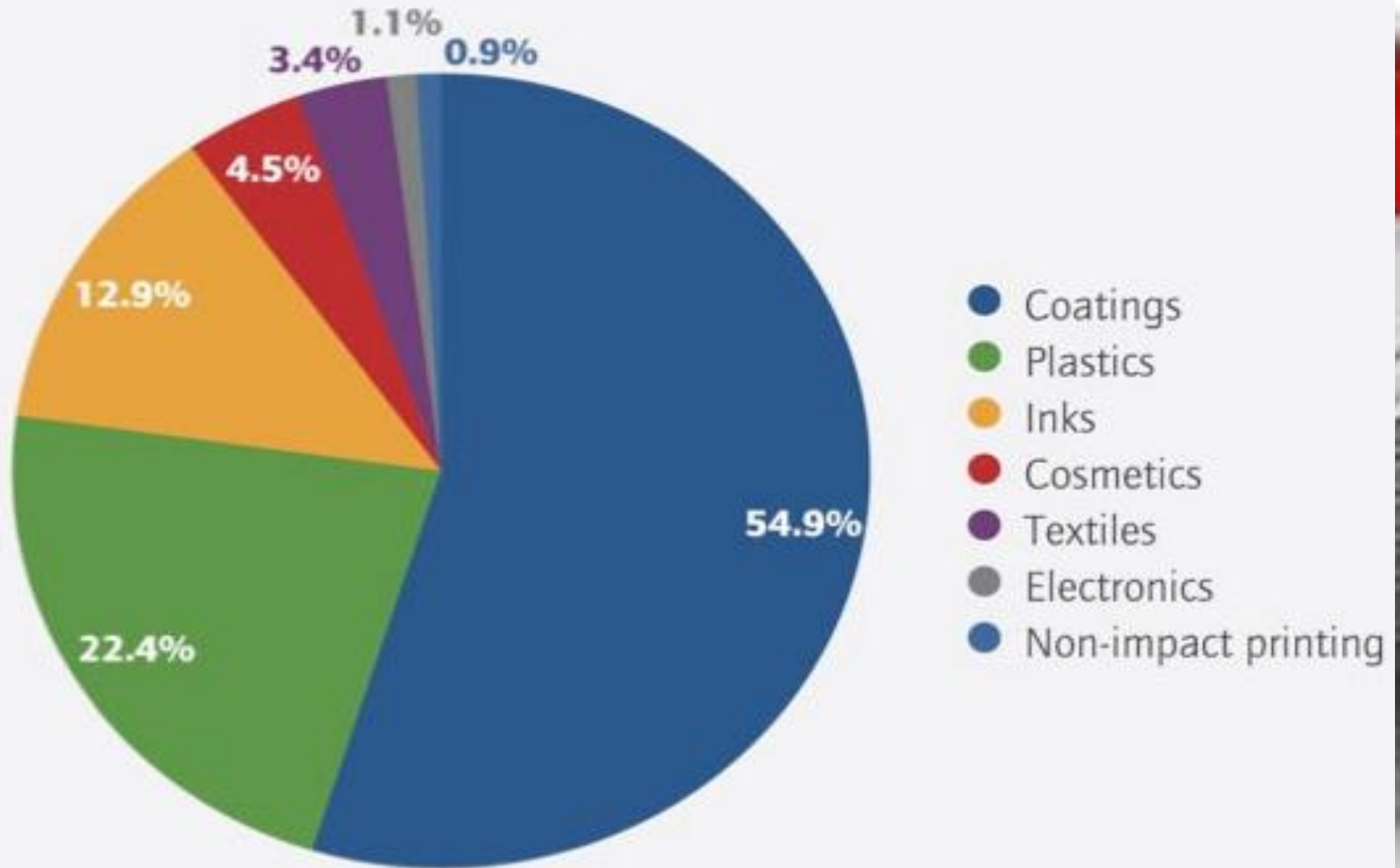


The background of the slide features a close-up view of several paint cans. In the top center, two cans are visible, one containing orange paint and the other yellow. Below them, a color chart with various colored squares is partially visible. The overall scene is brightly lit, highlighting the textures and colors of the paint and the chart.

Paints and varnishes production expected to post 10.9% CAGR over 2015-2020, due to a healthy construction sector and expected growth of automotive production capacity.

The global pigments market is expected to reach revenues of \$34.2 billion USD by 2020.

# Pigment Market






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- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, blue, red) and a color calibration chart with a grid of color patches. The text is overlaid on a semi-transparent yellow rectangular area.
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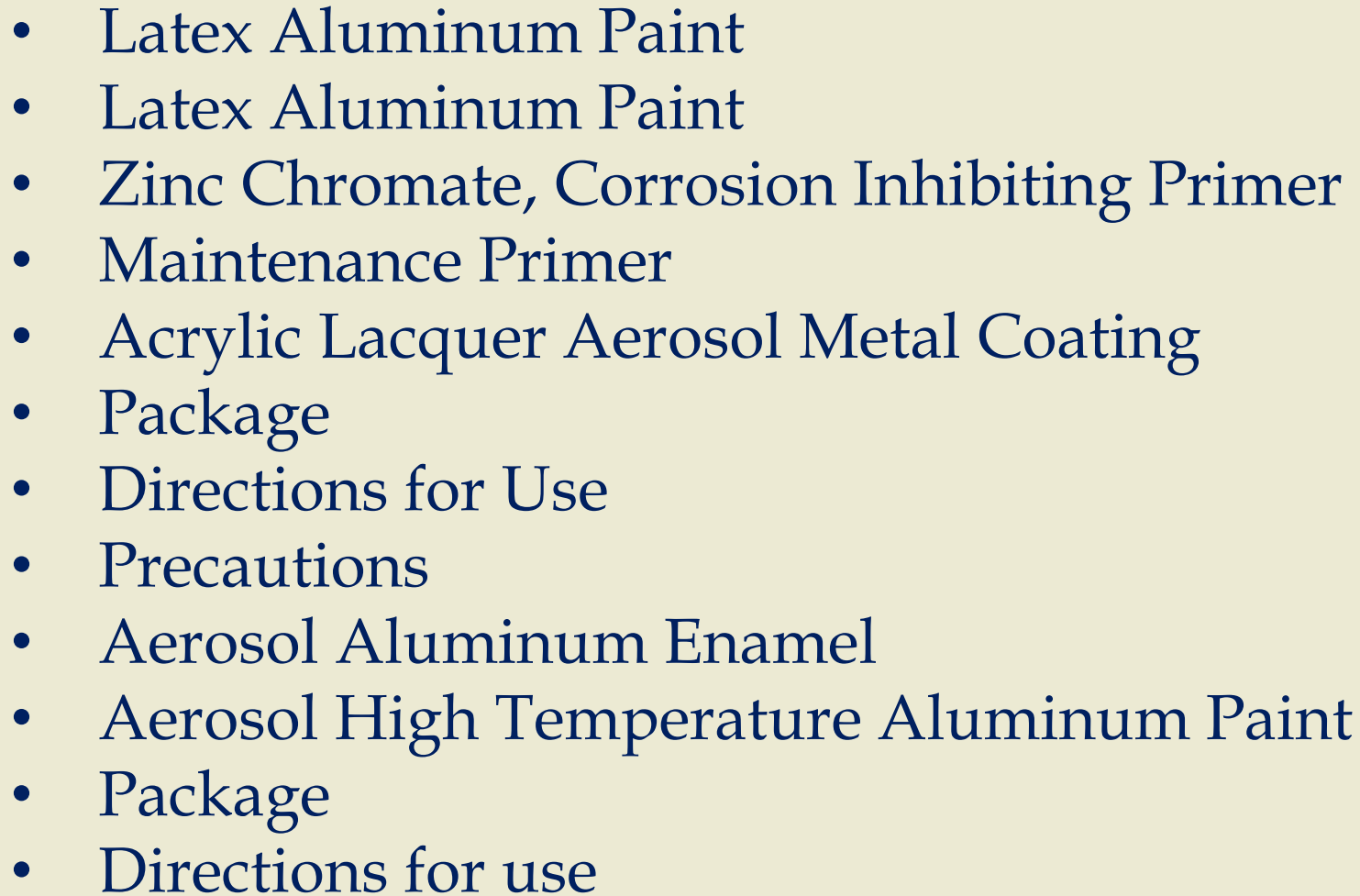
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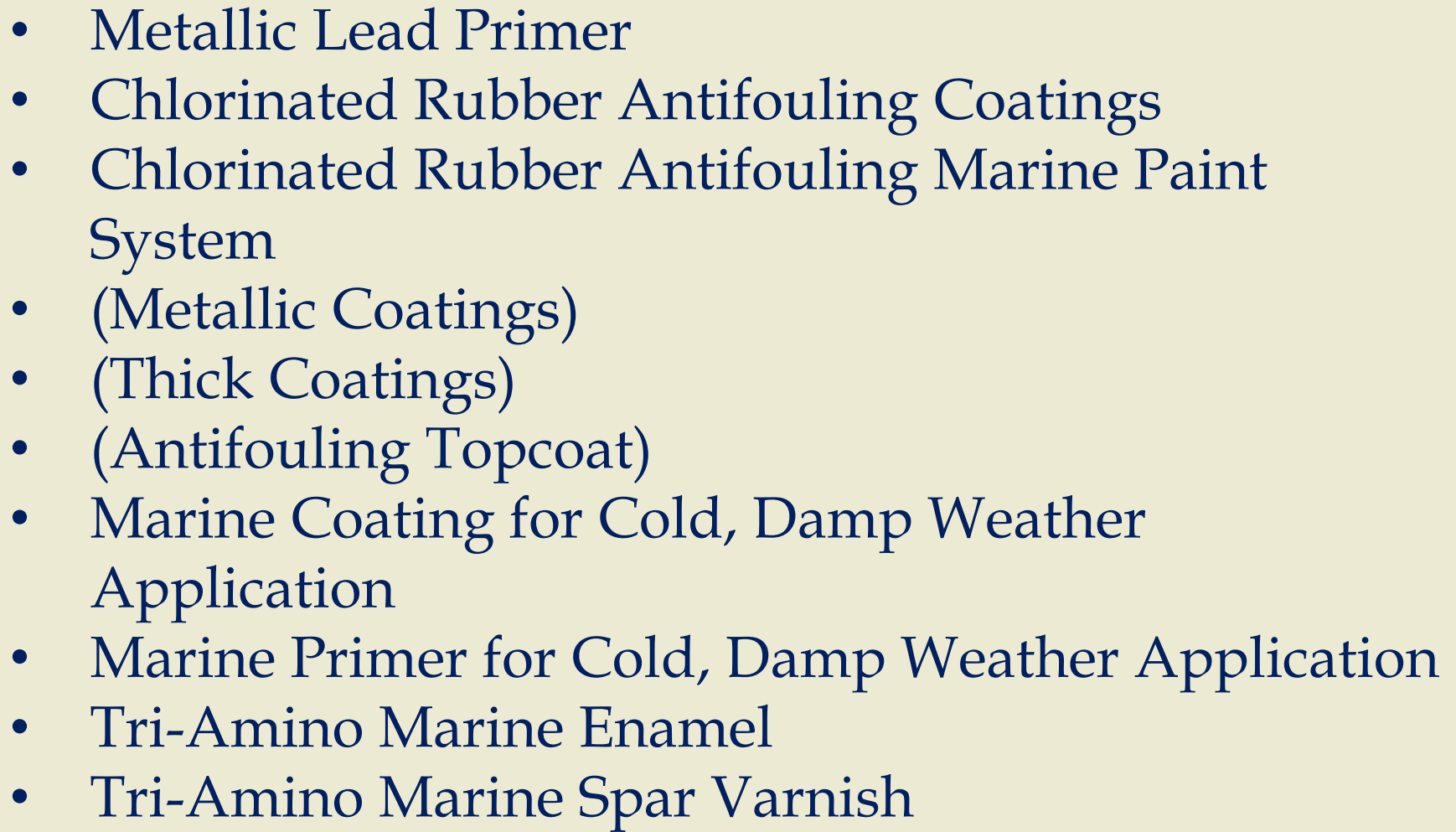


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- Latex Aluminum Paint
  - Latex Aluminum Paint
  - Zinc Chromate, Corrosion Inhibiting Primer
  - Maintenance Primer
  - Acrylic Lacquer Aerosol Metal Coating
  - Package
  - Directions for Use
  - Precautions
  - Aerosol Aluminum Enamel
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  - Package
  - Directions for use

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- The background of the slide features a collection of paint cans in various colors (orange, yellow, blue, red) and a color chart with a grid of color swatches. A yellow brush is also visible in the lower right quadrant.
- Precautions
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- Grey Marine Vinyl/Alkyd Enamel
- Zinc Dust Primer
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- Rosin Antifouling Coatings
- Chlorinated Rubber Marine High-Build Coatings with Inhibiting Pigment for Airless Spray

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- Metallic Lead Primer
  - Chlorinated Rubber Antifouling Coatings
  - Chlorinated Rubber Antifouling Marine Paint System
  - (Metallic Coatings)
  - (Thick Coatings)
  - (Antifouling Topcoat)
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- White Semi-Gloss Enamel
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- Gloss White Architectural Enamel
- Semigloss Tint Base
- Odorless Alkyd Gloss Enamel
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- White Aerosol Enamel
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- Gloss Enamel
- Semigloss Enamel
- Painter Enamel
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- Vanoxy Green, Enamel
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- Epoxy Green Enamel
- Epoxy White Enamel
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  - Blue Gloss Enamel
  - Yellow Industrial Enamel
  - Automotive and Equipment White Enamel
  - Bright Red Automotive Enamel
  - Industrial Orange Enamel



## 13. INTERIOR FIRE-RETARDANT PAINTS

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


## 14. INTERIOR GLOSS PAINTS

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

- Interior Gloss White Paint (Vinyl Acetate-Acrylic)
- Interior Gloss White Paint [Vinyl Acetate-Acrylic(S)]
- Interior Gloss White Paint (Vinyl Acetate-Ethylene)
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- Interior Gloss White And Tint Base Paint (Vinyl Acetate)
- Interior Gloss White And Tint Base Paint
- Interior Gloss White and Tint Base Paint
- Interior Gloss White And Tint Base Paint

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- The background of the slide features a collage of paint-related items. At the top, there are two paint cans, one with orange paint and one with yellow paint. Below them, a color chart with various colored squares is visible. In the foreground, a paint roller with a yellow handle is shown. The text is overlaid on a light yellow rectangular background.
- (Vinyl Acetate - Ethylene)
  - Interior Gloss Tint Base Paint (Vinyl Acetate-Ethylene)
  - Interior gloss enamels
  - Interior Gloss White Enamel (Acrylic)
  - Interior Gloss White Enamel (Acrylic-Styrene/Alkyd)
  - Interior Gloss White Enamel (Alkyds)
  - Interior High Gloss White Enamel (Acrylic)
  - Interior High Quality Gloss White Enamel (Acrylic)



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- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, blue, red) and a color chart with a grid of color swatches. The text is overlaid on a semi-transparent yellow rectangular area.
- Interior High Quality Gloss White Enamel (Acrylic)
  - Interior High Quality Gloss White Enamel (Acrylic)
  - Interior High Quality Gloss White Enamel (Acrylic)
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- Interior Semigloss White Paint (Acrylic)
- Interior Semigloss White Paint (Acrylic)
- Interior Semigloss White Paint (Acrylic)
- Interior Semigloss White Paint (Acrylic)
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- Interior Semigloss White Paint (Acrylic)
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- Interior Semigloss White Paint (Vinyl Acetate-Acrylic)

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

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

- Interior Low Cost Semigloss White and Tint Base Paint
- (Vinyl Acetate)
- Interior Low Cost Semigloss White and Tint Base Paint
- (Vinyl Acetate-Acrylic)
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- Interior Semigloss Tint Base Paint (Acrylic)
- Interior Semigloss Tint Base Paint (Acrylic)
- Interior Semigloss Medium Tint Base Paint (Acrylic)
- Interior Semigloss Pastel Tint Base Paint (Acrylic)

- Interior High Quality Semigloss Tint Base Paint (Acrylic)
- Interior Semigloss Enamel
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- Interior Semigloss White Paint (Acrylic)
- Interior Semigloss White Enamel (Acrylic)
- Interior Semigloss White Enamel (Acrylic)
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- Interior Medium Gloss White Enamel (Acrylic)
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- Interior High Quality Semigloss White Enamel (Acrylic)


- Interior High Quality Semigloss White Enamel (Acrylic)
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- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, red, blue, green) and a color chart with a grid of color swatches. The text is overlaid on a semi-transparent yellow rectangular area.
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- 
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- Interior Battleship Gray Concrete Enamel (Styrene-Butadiene)
- Interior Light Gray Concrete Enamel (Styrene-Butadiene)


- Interior Olive Gray Concrete Enamel (Styrene-Butadiene)
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- Exterior Low Gloss White Low-Odor Enamel  
(Two-Component, Epoxy-Polyester)
- Exterior Low Gloss White Low-Odor Enamel  
(A.P.A. Approved) (Two-Component, Epoxy-Polyester)
- Exterior Low Gloss White Low-Odor Enamel  
(A.P.A. Approved) (Two-Component, Epoxy-Polyester)
- Exterior Low Gloss White Low-Odor Enamel  
(TT-C-545D Type) (Two-Component, Epoxy-Polyester)
- Exterior Semigloss White Enamel (Alkyd)



- Exterior Semigloss White Enamel (TT-E-490B) (Alkyd)
- Exterior Semigloss White Low-Odor Enamel (Two-Component: Epoxy Polyester)
- Exterior Semigloss White Low-Odor Enamel (Two-Component: Epoxy-Polyester)
- Exterior Semigloss White Enamel (Styrene-Acrylate)
- Exterior Semigloss White Enamel (Styrene-Acrylate)
- Exterior Gloss White Color-Retentive Enamel (Acrylic)
- Exterior Gloss White Enamel (Alkyd)

- 
- The background of the slide features a collage of paint-related items. At the top, there are two open paint cans, one containing orange paint and the other yellow. Below them, a color chart with various colored squares is visible. In the foreground, a paintbrush with a yellow handle is shown, and another paint can is partially visible on the right side.
- Exterior Gloss White Fast-Drying Enamel (Alkyd)
  - Exterior Gloss White Fast-Drying Enamel (Alkyd)
  - Exterior Gloss White Odorless Enamel (Alkyd)
  - Exterior Gloss White Trim Enamel (Alkyd)
  - Exterior Gloss White Enamel
  - (Two-Component: Epoxy-Polyester)
  - Exterior Gloss White Low-Odor Enamel
  - (Two-Component: Epoxy-Polyester)
  - Exterior Gloss White Enamel (Oxazoline)

- 
- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, red, blue, green) and a paint roller with a yellow handle. The text is overlaid on a semi-transparent yellow rectangular area.
- Exterior Gloss White Enamel (Styrene-Acrylate)
  - Exterior Gloss White Enamel (Styrene-Acrylate)
  - Exterior Gloss White Marine and General Purpose Low-Cost Enamel (Urethane)
  - Exterior White Rapid-Drying Enamel (Alkyd)
  - Exterior White Enamel (Urethane)
  - Exterior White Tile-Like Enamel  
(Two-Component: Urethane-Catalyst)

## 24. EXTERIOR OR INTERIOR ENAMELS


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



## 25. VARNISHES, LACQUERS AND FLOOR FINISHES

- Cold-Blend Spar Varnish Metal
- General-Purpose Utility Varnish
- Crown Cap Varnish
- Furniture Rubbing Varnish
- Four-Hour Floor and Trim Varnish
- Clear Floor Varnish
- Flatted Alkyd Varnish
- Alkyd Rubber Lacquer
- Epoxy Clear Coating
- Epoxy-Amine Clear Coating

- Epoxy Clear Coating
- Clear Flexible Epoxy-Amine Exterior Coating
- Flatting Base
- Clear Varnish
- Gray Floor Enamel
- MFMA Gym Floor Finish â€" 40% Solids
- General Purpose Varnish â€" 50% Solids.
- Marine Spar Varnish
- Chemically Resistant Varnish
- Overpaint Varnish
- Porch and Deck Varnish
- Venetian Blend Varnish


- 
- The background of the slide features a collage of paint-related items. At the top, there are two paint cans, one with orange paint and one with yellow paint. On the right side, there are more paint cans with red and white paint. At the bottom, there is a paint roller with yellow paint on it, and a color chart with various shades of green, blue, and purple.
- Clear Acrylic Lacquer
  - Directions for Use
  - Package
  - Precautions
  - Acryloid Acrylic Wood Lacquer
  - Protective Acrylic Coating for Copper Metal
  - Acrylic Lacquer
  - Clear Sanding Sealer
  - Varnish
  - Maroon Floor Varnish
  - (Phenolic Resin)

- 
- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, blue, red) and a paint roller with a yellow handle. A color chart is also visible in the lower-left corner.
- Shellac Primer Sealer
  - Furniture Lacquer
  - Cold-Blend Floor Varnish
  - Maroon Floor Paint
  - Vehicle
  - Gray Floor Enamel
  - Dull Finish Varnish
  - Flooring Primer
  - Green Floor Enamel
  - Red Floor Enamel



## 26. PIGMENTS - GENERAL CLASSIFICATION AND DESCRIPTION

- Part A. Pigment Classification
- Definition of Paint
- The Functions of Pigments in Paint
- Types of Pigments
- Principles of Hiding Power
- The Hiding Power of Paint
- Part B. Supplemental Pigments

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

## 27. WHITE PIGMENTS


- Opacity
- The Reactive White Pigments
- Basic Carbonate White Lead

## 28. COLORED PIGMENTS

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

- Cadmium Yellow
- Yellow Iron Oxide
- Hansa Yellows
- Benzidine Yellows
- Vat Yellows
- Chrome Orange
- Molybdate Orange
- Cadmium Orange
- Mercadium Orange
- Benzidine Orange
- Dinitraniline Orange
- Vat Dye Oranges




- 
- Chrome Greens
  - Chromium Oxide
  - Hydrated Chromium Oxide
  - Copper Phthalocyanine Green
  - Organic Green Toners
  - Iron Blues
  - Copper Phthalocyanine Blues
  - Ultramarine Blue
  - Organic Blue Toners
  - Indanthrone Blue
  - Carbazole Dioxazine Violet

- Organic Violet Toner
- Mineral Violet
- Quinacridone Violet
- Lithols
- Para Reds
- Toluidine Reds
- BON (-OxynaphthOic) Reds and Maroons
- Lithol Rubine
- Chlorinated Para Red
- Quinacridone reds and maroons
- Red Iron Oxide
- Cadmium Red and Maroons

- Mercadium Reds and Maroons
- Red Lead
- Thioindigo Reds and Maroons
- Arylide Maroons
- Siennas, Ochters and Umbers
- Carbon Blacks, Lampblacks and Bone Blacks
- Tinting Properties of Colored Pigments
- Chrome Yellows
- Zinc Yellows
- Basic Zinc Chromate
- Strontium Yellow
- Nickel Titanate Yellow

- 
- The background of the slide features a close-up of several paint cans. Two cans at the top are filled with vibrant orange and yellow pigments. Below them, a color calibration chart with various colored squares is visible. The overall scene is brightly lit, emphasizing the rich colors of the pigments.
- Nickel Azo Yellow
  - Cadmium Yellow
  - Yellow Iron Oxide
  - Hansa Yellow
  - Benzidine Yellow
  - Vat Yellows
  - Chrome Orange
  - Molybdate Orange
  - Cadmium Orange
  - Mercadium Orange



- 
- The background of the slide features several metal containers filled with different colored dyes, including orange, yellow, and red. In the foreground, there is a color calibration chart with various color patches. The text is overlaid on a semi-transparent yellow rectangular area.
- Benzidine Orange
  - Dinitraniline Orange
  - Vat Dye Orange
  - Chrome Greens
  - Chromium Oxide
  - Hydrated Chromium Oxide
  - Copper Phthalocyanine Green

## 29. PIGMENT DISPERSION

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


## 30. PLASTICIZERS

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

## 31. OXYGENATED SOLVENTS

- Ester Solvents
- Ketone Solvents
- Glycol Ether Solvents
- Alcohols
- Other Solvents
- Solvent Properties
- Resin Solubility
- Evaporation Rate
- Solvent Strength
- Flash Point



- 
- The background of the slide features several paint cans in various colors (blue, orange, yellow, red) and a color chart with a grid of color swatches. The text is overlaid on a light yellow rectangular area.
- Odor
  - Water Sensitivity
  - Pounds per Gallon
  - Formulation of Solvent Systems
  - Nitrocellulose
  - Vinyl Copolymer Resins
  - Acrylics
  - Epoxy

## 32. WOOD COATINGS

- Procedure
- Blister-Resistant Oil-Based Primer

## 33. PAINT AND VARNISH REMOVERS

- Paint Removal
- Formulation
- Solvent Paint and Varnish Removers
- Solvents
- Co-solvent

- 
- The background of the slide features a close-up view of several paint cans in various colors (orange, yellow, red, blue) and a paint roller with a yellow handle and a metal frame. The paint roller is positioned diagonally across the lower half of the image. The overall scene is brightly lit, highlighting the textures of the paint and the metal.
- Activators
  - Chemical Removers
  - Nonchlorinated Solvent Paint Removers
  - Removal of Epoxies
  - Mechanism of Paint Removal
  - Methods of Paint Removal

## 34. THE MANUFACTURE OF PAINT REMOVERS

# Tags

Starting Paint Production Business, How to Start Paint Manufacturing Industry, Business Plan for Paint Industry, How to Start Successful Manufacturing Business, Paint Manufacturing Business Plan, Paint Production Process, Paint Business Plan, Paint Production, Paint Production Business Plan, How to Start Paint Production Business, Paint Manufacturing, Planning in Paint Manufacturing Industry, Process Plants for Paint Industry, Paint Making Process, Paint Manufacturing Process, Process of Paint Production, How to Manufacture Paint, Paint Manufacturing Machines, Resin Manufacture, Resin Manufacturing, Resin Manufacturing Plant, Manufacturing Process of Resins, How to Start Resin Manufacturing Business, Resin Manufacturing Process, Process of Making Resin, Powder Coatings Manufacturing, Powder Coatings Manufacture, Manufacturing Process for Powder Coatings, Powder Coating Manufacturing Process, Powder Coating Production Equipment, Powder Coating Plant, Manufacture of Natural Copal Varnishes, Method of Heating, Manufacture of Black Varnishes, Black Varnish Manufacture, Manufacture of Spirit Varnishes, Floor Paints and Enamels, Interior Concrete Paints and Enamels, Exterior White Enamels, Exterior or Interior Enamels, Varnishes, Lacquers and Floor Finishes, Furniture Rubbing Varnish, Epoxy-Amine Clear Coating, White Pigment Evaluation Methods, Colored Pigments, Mill Base Formulation, Plasticizers, Oxygenated Solvents, Wood Coatings, Paint and Varnish Removers, Solvent Paint and Varnish Removers, Formulation of Varnish Removers, Chemical Removers, Non Chlorinated Solvent Paint Removers,



# Tags

Removal of Epoxies, Mechanism of Paint Removal, Methods of Paint Removal, Manufacturing Process of Paint Remover Paint, Paint Removers Production, How to Remove Paint With Chemical, Powder Coating & Paint Remover, Paint Remover Industry, Manufacture of Paint Removers, Paint Removing Methods, Methods for Testing Paints, Color in Paint, Maintenance Paints, Emulsion Paints, Exterior or Interior Paints, Exterior or Interior White Multicolor Paint, Exterior Swimming Pool Paints and Enamels, Interior Flat White Ceiling Paint, Interior Ceiling Paints, Metal Paints, Gray Automotive Enamel, Aluminum Paint, Maintenance Paints and Coatings, Paint Formulation, Paint Formulation and Process, Paint Formulation Guide, Laboratory Equipment, Color Testing, Color Formulation, Emulsion Formation, Formulation of Solvent, Marine Paints, Npcs, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, 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, Best Small and Cottage Scale Industries, Startup India, Stand Up India, Small Scale Industries, New Small Scale Ideas for Powder Coating Manufacturing, Paint Removers Production Business Ideas You Can Start on Your Own, Small Scale Paint Formulation Processing, Guide to Starting and Operating Small Business,

# Tags



Business Ideas for Paint Manufacturing, How to Start Paint Manufacturing Business, Starting Paint Manufacturing, Start Your Own Paint Removers Production Business, Powder Coating Manufacturing Business Plan, Business Plan for Resin Manufacturing, Small Scale Industries in India, Color Formulation Based Small Business Ideas in India, Small Scale Industry You Can Start on Your Own, Business Plan for Small Scale Industries, Set Up Powder Coating Manufacturing, 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



**Niir Project Consultancy Services (NPCS) can provide  
Process Technology Book on**

**Formulation and Manufacturing Process of  
Paints, Pigments, Varnishes and Enamels**

**(Paint Testing, Wood Coatings, Oxygenated Solvents,  
Plasticizers, Pigment Dispersion, Colored Pigments,  
Varnishes, Lacquers and Floor Finishes, Exterior White  
Enamels, Floor Paints and Enamels, Enamel Paints, Marine  
Paints)**

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The background of the entire image is a close-up photograph of several paint cans. The cans are arranged in a row, with some in the foreground and others slightly behind. The colors of the paint inside the cans are visible: blue, orange, yellow, and red. In the bottom left corner, there is a color chart with various colored squares. The overall scene is brightly lit, and the focus is sharp on the paint cans.

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The background of the slide features several open paint cans in various colors (blue, orange, yellow, red) and a color palette with a grid of color swatches. The text is overlaid on this background.

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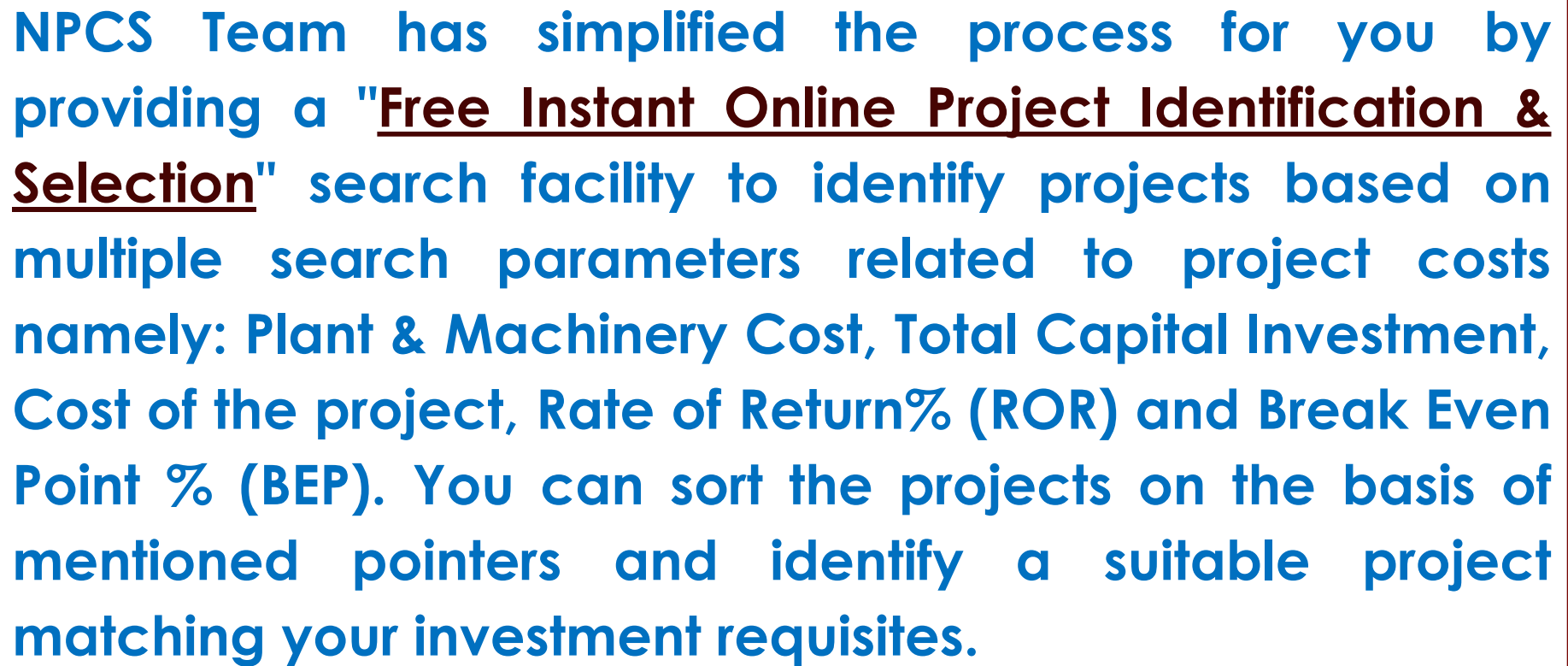
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# ***Niir PROJECT CONSULTANCY SERVICES***

**AN ISO 9001:2008 COMPANY**

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# 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.*





The background of the slide features a collection of paint cans in various colors (orange, yellow, blue, red) and a color palette with a grid of color swatches. The text is overlaid on a white rectangular area with a thin green border.

*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*
- *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*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

# Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *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*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

## Sectors We Cover Cont...

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

## Sectors We Cover Cont...

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



## Sectors We Cover Cont...

- *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*
- *Inks, Stationery And Export Industries*

## Sectors We Cover Cont...

- *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*
- *Organic Farming, Neem Products Etc.*

## Sectors We Cover Cont...

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

## Sectors We Cover Cont...

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



## Sectors We Cover *Cont...*

- *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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