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The Complete Technology Book on Synthetic Resins with Formulae & Processes

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Description

Synthetic resin is typically manufactured using a chemical polymerization process. This process then results in the creation of polymers that are more stable and homogeneous than naturally occurring resin. Since they are more stable and are cheaper, various forms of synthetic resin are used in a variety of products such as plastics, paints, varnishes, and textiles. There are various kinds of synthetic resins; silicones resins, polyvinyl pyrrolidone, gum arabic, epoxy resins, guar gum, carrageenan, carboxymethyl cellulose, etc. Resins are polymeric compound which are available in nature and are also manufactured by synthetic routes. Some resins are also manufactured by partial modification of natural precursor polymer by chemical. Silicones are unique among the commercially important polymers both in chemistry and in variety of industrial applications. Silicones can be applied as high temperature insulating varnishes, impregnates to be used with glass, asbestos, mica products and encapsulating agents for electrical components. Water borne dispersions or emulsions, for example emulsions of vinyl or acrylic copolymers are popular in decorative coatings. The applications of synthetic resins are seen in some important industries like paint industry, adhesive industry, the textile industry, paper, paint, agricultural industry, petroleum industry etc. As it can be seen that there is an enormous scope of application of resins hence it is one of the major field to venture. Some of the fundamentals of the book are electrodepositable pigmented coating

Some of the fundamentals of the book are electrodepositable pigmented coating compositions based on alkyd resins, phosphorus containing allyl resins, vapour permeation cure technology, characterization of water soluble anodic electrodepositive pigmented coating compositions, protection of concrete substrates, zinc rich coatings, electro deposition primers, developments in thermosetting powder coatings,

application of powder coatings, polyethylene glycol, petroleum recovery and processing, industries using polyethylene glycols, silicones resins, preparation & formulation of silicone resin based coatings, pigments and dyes etc.

Synthetic Resins are used by lot of industries. Yet, little emphasis has been placed on the comparative value on functionality of polymeric material as a class. These resins have been classified in separate categories, usually in terms of their Chemistry, sources or end uses. The present book contains formulae, processes and other valuable details for various synthetic resins. This is very useful book for those concerned with development, consultants, research scholars, new entrepreneurs

Content

1. PHOSPHORUS CONTAINING ALLYL RESINS
Properties of Monomers
Polymerization
Applications

existing units, institutional libraries etc.

2. ELECTRODEPOSITABLE PIGMENTED COATING COMPOSITIONS BASED ON ALKYD RESINS

Introduction

Experimental

Materials

Synthesis of water soluble alkyd resin from phthalic anhydride and maleic anhydride (A1).

Synthesis of water soluble alkyd resin from phthalic anhydride and trimellitic anhydride (A2).

Synthesis of water soluble alkyd resin from phthalic anhydride and maleopimaric acid (A3).

Synthesis of water soluble alkyd resin from maleopimaric acid (A4).

Synthesis of water soluble methylated melamine formaldehyde resin.

Preparation of water soluble anodic electrodepositive pigmented coating compositions.

Characterisation of water soluble alkyd resins

Characterisation of water soluble anodic electrodepositive pigmented coating compositions.

Optimisation of anodic electrodepositive parameters

Testing and evaluation of anodic electrodepositive pigmented coating compositions Results and Discussions Solvent (MTO) Resistance Protection Against Corrosion

3. VAPOUR PERMEATION CURE TECHNOLOGY

Introduction

Vapour Permeation Cure (VPC)

Primary Advantages of VPC Coating

Disadvantages

Limitations

Vapour Injection Cure (VIC) Process

Chemical Composition

Reaction and Mechanism

Advantages of VIC

Conclusion

4. PROTECTION OF CONCRETE SUBSTRATES

Differences Between Concrete and Metallic Substrates

Constructions Influence

Coatings Used on Concrete

Organic coatings Thin film

Modified Epoxies

Furans

Chlorinated Rubbers

Waterborne Coatings

Vinyl Esters

Other Coatings

Organic Coatings Thick Film

Elastomeric Coatings

Polyurethane Coatings

Synthetic Rubber (Elastomers)

Resin Rich System

Polymer Concretes

Plastic Liners

Brick or Tile and Mortar Systems

Machinery Setting Grouts

Inorganic Coatings

New Versus Aged or Deteriorated Substrates

Quality Assurance

Conclusion

5. ZINC RICH COATINGS

Inhibitive Primers

Organic Zinc Rich Coatings

Inorganic Zinc Rich Coatings

Surface Preparation

White Metal Blasting

Galvanising

Galvanising and Zinc Rich Coating Comparison

Beach Front Exposure

Tidal Exposure

5% Salt Spray Test

Inorganic Zinc Rich Coating Advantages and Limitations

Application of Inorganic Zinc Rich Coatings

Cost Aspects

6. ELECTRO DEPOSITION PRIMERS

Electrodeposition Primers

Mechanism of Electrodeposition

Electro osmosis

Advantages of Electrodeposition

Types of Electrodeposition Primers

Shift to Cathodic E.D. Primer

Cathodic Electrodeposition Paint

Comparison of AED and CED

Properties of Dry Film

Latest Development in C.E.D.

Comparative Features of Different Types of CED

Plant Design and Process Control

Trends in Top Coats

Upgradation of Appearance & Performance of Top Coats

Solid Colours

Metallic Colours

Developments in Top Coat Application

Developments in Thermosetting Powder Coatings

Powder Manufacture

Types of Powder

Powder Coatings Method of Application

Electrostatic Spray Corona Charging

Faraday Cage

Back Ionization

Electrostatic Spray Tribo Charging

Advantages of Powder Coatings

Dis Advantages of Powder

Economic Advantages of Powder Coatings

Application of Powder Coatings

General Metal Coatings

Industrial Machinery

Conclusion

7. WATERBORNE DISPERSIONS

Formulating Principles

Pigments

Additives

Binders

Acrylics/Vinyls/Vinyl Acrylic Emulsions

Polyurethane Dispersions

Cross Linking

Epoxy Dispersions

Miscellaneous Systems

Conclusion

8. ALGINATE

Chemical Structure

Chemical Derivatives

Manufacture

Physical Properties

Powdered Alginates

Solution Properties

Rheological Properties

Commercial Uses

Food Applications

Industrial Applications

Formulations

Stabilizing Frozen Foods

Fruit pie Filling

Frozen Gel

Frozen Fruit

Cream Sauce

Barbecue Sauce

Frozen Shortcake Berry Filling

Tomato Sauce (Pizza and Spaghetti)

Macaroni and Cheese

Chopsuey

Food Gels

Dessert Gel

Cold Water Gel

Cold Milk Gel

Instant Chiffon Pie Filling

Instant Chesse Cake Mix

Instant Limitation Bakery Jelly

Banana Gel Base

Meringue Powder with Dried Egg Whites

Dessert Souffles

Vanilla Souffle

Chocolate Souffle

Lemon Souffle

Dressings

Fabricated fruit

Pie fillings

Cooked Fillings

Cold mix Fillings

Industrial Applications

Corrugating Adhesives

Single Starch System

Two Starch System

Fiber Reactive dyes

Pad Dyeing

Laboratory Techniques

Viscosity Measurement

Moisture Determination

Powder Color Determination

Alginates in Mixtures (Detection)

Alginates in Mixtures (Determination)

Spectrophotometric

9. CARBOXYMETHYL CELLULOSE

Chemical Nature

Physical Properties

Equilibrium Moisture Content

Molecular Weights

Solubility

Film Properties

Manufacture

Biological Properties

Toxicological Properties

Six month Oral Toxicity

One year Studies

Chronic Oral Toxicity

Reproduction

Gastrointestinal Absorption

Clinical Study

Skin Irritation and Sensitization

Getting Information

Rheology

Storage and Handling

Packaging

In Plant Handling

Bulk Handling

Bag Handling and Storage

Shipping

Applications

Detergents

Petroleum

Paper

Textiles

BOD and Desizing Wastes

Coatings

Cosmetics and Pharmaceuticals

Miscellaneous Applications

Specialties

Future Developments

World Production

10. CARRAGEENAN

Chemical Nature

Structure

Molecular Weight

Reactivities

Physical Properties Appearance

Particle Size

Density

Solubilities

Manufacture

Biological/Toxicological Properties

Gastrointestinal Ulceration

Teratogenicity

Carcinogenicity

Rheological Properties

Gelation

Milk Gels

Additives/Extenders

Handling

Applications

By Result

By End Product

By Industry

By Process

Application Procedures

Dispersion

Stability

Specialties

Future Developments

Commercial Uses: Compounding and Formulating

Milk Applications

Uses in Dry Mixes

Uses in Manufactured Produts

Water Applications

Uses in Dry Mixes

Uses in Manufactured Products

Nonfood Applications

Pharmaceuticals and Toilet Goods

Other Applications

Commerical Uses: Processing Aids

Beverage Clarification

Abrasive Suspensions

Ceramic Glazes and Core Washes

Industries Using Carrageenans

Food Dairy

Dairy Substitutes

Packaged Desserts

Other Food Uses

Pharmaceuticals and Toilet Goods

Metal Fabrication

Ceramics

Coatings

Agriculture

Household Products

Formulations

Chocolate Milk

Canned Water Dessert Gel

Air Treatment Gel

Toothpaste

Milk Puddings

Creamy Type (Cold Set)

Cooked Custard Type (Dessert and pie filling)

Cooked Custard or Flan

Antacid Gel

Laboratory Techniques

Water Viscosity Measurement

Water Gel Strength Measurement

Milk Gel Strength measurement

11. GUAR GUM

Manufacture

Seed Structure

Purification

Grades

Chemical and Physical Properties

Structure

Solubility in Water

Rheology

Viscosity

Shear Response

Handling

Dry Storage

Solution Preparation

Applications Oil and Gas **Explosives Textile** Food Ice Cream Canned Pet Food Cheese Sauces and Salad Dressings Paper Mining Commercial Applications: Compounding and Formulating Food **Explosives** Commercial Uses: Processing Aids Oil and Gas **Textile** Carpets Paper **Kraft Papers** Kraft Liner board Recycled Liner board Corrugating Medium Boxboard Offset News Stock White Papers Mining Industries Using Guar Gum Oil and Gas **Explosives** Food Paper Textile Mining **Formulations** 12. GUM ARABIC

Chemical Nature

Physical Properties

Manufacture

Biological/Toxicological Properties Rheological Properties

Additives/ Extenders

Additives

Extenders

Handling

Applications

Emulsification

Colloid Stabilization

Encapsulation

Suspension

Application Procedures

Compatibility

Commercial Uses

Food Applications

Confectioneries

Dairy Products

Bakery Products

Flavor Fixation

Flavor Emulsification

Beverages

Pharmaceuticals

Suspending Agent

Demulcent Agent

Emulsification

Antiseptic Preparations

Miscellaneous Applications

Medicines

Cosmetics

Adhesives

Paints

Inks

Record Ink

Soluble Inks

Watercolor Inks

Quick Drying Inks

Fabric and Laundry Marking Inks

Pigmented Inks

Emulsion or Typographic Inks

Hectographic Inks

Electrically Conductive Inks

Lithography

Textiles

Miscellaneous Uses

Industries Using Gum Arabic

Food Industry

Pharmaceutical Industry

Other Industries

Formulations

Confectioneries

Dietetic or Sugarless Candies

Marshmallows

Food Emulsions

Pickle Oil Emulsion

Pickle Juice

Beverages

Stabilized Fruit Drink

Dry Mix Imitation Orange Drink

Beverage Stabilizers

Nut Coating

Inks

Gloss Finish Inks

Wood Grain Inks

Laboratory Techniques

30% Viscosity Method

Insoluble Residue

Sediment and Color

Peroxidase Content

13. HYDROXY ETHYL CELLULOSE

Chemical Nature

Physical Properties

Solubility in water

Solubility in Organic Solvents

Dissolving Methods

Viscosity Properties

Compatibilities

Interactions

Film Formation

Manufacture

Biological/Toxicological Properties

Rheological Properties of Solutions

Additives/Extenders

Handling

Applications

Application Procedures

Specialties

Future Developments

Commercial Uses: Compounding and Formulating

Protective Colloid in Latex

Thickener for Latex Compositions

Latex Paints

Color Coats for Paper

Textile Binders and Adhesives

Building Specialties

Cosmetics and Pharmaceuticals

Paper Sizes and Coatings

Carpet and Textile Dye Pastes

Special Applications

Commercial Uses: Processing Aids

Crude Oil Drilling and Recovery

Electroplating and Electrowinning

Miscellaneous Binders

Other Specialty Uses

Industries Using Hydroxyethylcellulose

Adhesives

Agricultural Products

Building Products

Cosmetics

Oil and Gas Extraction

Paints and Coatings

Paper and Allied Products

Synthetic Resins

Textile Mill Products

Formulations

`Copolymer Latex

Latex Interior Flat Wall Paint

Textile Printing

Oil Well Workover Fluid

Roll on Antiperspirant

Liquid Shampoo

14. HYDROXY PROPYL CELLULOSE

Chemical Nature

Stability

Chemical Stability

Biological Stability

Insolubilization

Physical Properties

Moisture Content

Solutions

Rheology

Organic Solutions

Hot Melts and Waxes

Compatibility

Film Properties

Thermoplasticity

Manufacture

Toxicological Properties

Additives

Preservatives

Defoamers

Plasticizers

Handling

Applications

Application Procedures

Water Temperature

Compatibility with Salts

Molding Powder Preparation

Specialties

Commercial Uses: Compounding and Formulating

Commercial Uses: Processing Aids

Industries Using Hydroxypropyl Cellulose

Formulations

Cosmetics

Antiperspirant (Roll On)

Hair Grooming Aid

Shampoo (Gel)

Paint Removers

Nonflammable Solvent Type Remover

Acid Type Remover

Pharmaceuticals

Thermoplastics

Injection Molding Formulation (Unfilled)

Laboratory Techniques

15. POLYETHYLENE GLYCOL

Chemical Nature

Physical Properties

Viscosity

Solubility in Water

Solubility in Organic Solvents

Solvency and Compatibility

Hygroscopicity

Surface Tension

Volatility

Thermal Stability

Biological/Toxicological Properties

Manufacture

Handling

Applications

Functions

End Products

Industries

Processes

Application Procedures

Additives/Extenders

Specialties

Future Developments

Commercial Uses: Compounding and Formulating

Chemical Intermediates

Adhesives

Agricultural Formulations

Cellophane Film Humectants

Cosmetics and Toiletries

Detergents and Cleaners

Inks

Paints and Coatings

Pharmaceutical Products

Rubber Compounds

Miscellaneous Products

Cork Products

Food Products

Lubricants and Hydraulic Fluids

Paper Products

Photographic Developers

Sponges

Wood swelling agent

Commercial Uses: for Processing Aids

Ceramics

Dialysis Operations

Electroplating

Heat Transfer Baths

Leather Treatment

Metal Working Operations

Paper Products

Petroleum Recovery and Processing

Plastic Compounding

Rubber Products

Textile Products

Wood Products

Industries Using Polyethylene Glycols

Adhesives

Agricultural Products

Ceramics Products

Chemical Specialties

Cosmetics and Toiletries

Electronic and Electrowinning

Food Products

Inks and Printing

Leather Processing

Lubricants and Hydraulic Fluids

Medical Sundries

Metal Fabricating

Packaging Materials

Paints and Coatings

Paper Products

Petroleum Recovery and Processing

Pharmaceuticals

Photographic Products

Plastics Products

Rubber and Elastomers

Textile Products

Wood Processing

Formulations

Fatty Acid Esters

Water Dispersible Alkyd Resin for Paints

Suppository Bases

Ointment Bases

Cosmetic Cream

Hand Lotion

Brushless Shaving Cream

Cream Rouge (Vanishing)

Perfume Stick

Clay Starch Paper Coating

Metal Working Lubricant

Ball point Pen Ink

Laboratory Techniques

Identification of PEGs

Determination of PEGs in Other Materials

16. ALGINATE POLY ETHYLENE OXIDE

Chemical Nature

Narrow Molecular Weight Distribution Grades

Hydrogels

Thermoplastic Compound

Hydrodynamic Drag Reduction Slurry

Oxidative Degradation

Association Complexes

Physical Properties

Bulk Properties

Manufacture

Biological/Toxicological Properties

Toxicological Studies

Biodegradability

Rheological properties

Viscosity

Additives/Extenders

Applications

Application procedures

Boiling Water Dispersion

Nonsolvent Dispersion

Commercial Uses: Compounding and Formulating

Adhesives

Water Soluble Paper Adhesives

Adhesives from Association Complexes

Industrial Supplies

Thickened Cleaning Solutions

Construction Products

Paving Composition

Water Soluble Purge Dam

Paints and Paint Removers

Latex Paints

Spatter Finish

Thickener for Paint and Varnish Remover

Pharmaceuticals

Dispersant for Calamine Lotion

Rubbing Alcohol

Printing Products

Microencapsulated Inks

Lithographic Press Dampening Fluid

Soap, Detergents, and Personal Care Products

Detergents

Toothpastes

Denture Fixative

Shaving Stick

Ophthalmic Solution

Absorbent Pads

Water Soluble Films

Seed Tape

Water Soluble Packaging

Commercial Uses: Processing Aids

Binder

Ceramics

Battery Electrodes

Fluorescent Lamps

Soil Stabilization

Other Binder Applications

Coatings and Sizes

Tablet Coatings

Glass Fiber Size

Dispersant

Vinyl Polymerization

Glass Fiber Reinforced Concrete

Flocculation

Clays

Coal

Silica

Filier Retention Drainage Aid (Paper Making)

Hydrodynamic Drag Reduction

Fire fighting Additive

Fluid jet Cutting

Additive to Prevent Sewer Surcharges

Other Drag Reduction Applications

Thermoplastics Manufacture

Textile Antistat

Fugitive Textile Weft

Thickening / Rheology Control

Antimist Additive

Drift Control Additive

Oil Recovery Fluids

Water Retention

Asbestos Cement Extrusion Aid

Soil Amendment

Industries Using Poly (Ethylene Oxide)

Formulations

Aluminum and Metal Cleaner

Calamine Lotion

Denture Fixative, Powder

Detergent Bars

Detergent Liquid

Lithographic Press Dampening Fluid

Microencapsulation

Paint and Varnish Remover

Thickened Acetic Acid

Thickened Hydrochloric Acid (Muriatric Acid)

Thickened Sulfuric Acid

Rubber Lubricant (for Mounting of Tires) Toothpastes

17. POLYVINYLPYRROLIDONE

General Information

Chemical Nature

Physical Properties

Manufacture

Rheological Properties

Intrinsic Viscosity

Toxicological Properties

General

Acute Toxicology

National Cancer Institute

Subacute and Chronic

PVP Films

Compatibilities

Future Developments

Applications of PVP

Pharmacy

Medicine

Beverages

Cosmetics and Toiletries

Textiles

Paper

Adhesives

Detergents and Soaps

Polymers and Polymerization

Agricultural

Photography and Lithography

18. SILICONES RESINS

Chlorosilanes

Commercial Production of Monomeric Intermediates

Silicone Fluids

Manufacture

Properties and Uses

Thermal Stability

Rheological Characteristics

Surface Activity

Lubricating Properties

Electrical Properties

Other Characteristics

Identification

Silicone Elastomers

Manufacture of Base Polymers

Fillers

Processing

Vulcanization

Properties and Uses

High and Low Temperature Applications

Electrical Applications

Molding and Mold Release Applications

Thermal Insulation and Ablative Applications

Construction Products

Medical Applications

Convenience Uses and Miscellaneous Applications

Silicone Resins

Manufacture

Cure

Properties and Uses

Greases and Compounds

Surfactants

Primers and Adhesion Promoters

Preparation & Formulation of Silicone Resin Based Coatings

Cure Catalyst Driers

Pigments and Dyes

Thinners

Formulations

Application Guides

Surface Preparation

Priming

Applying the Coating

Curing

Surfactants and Specialties

Methods of Manufacture

Properties

Emulsions

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