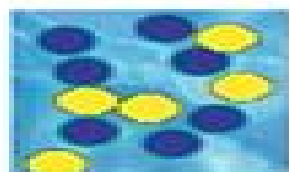


Figure 1/Morphology approaches for PVDF/acrylic latex coatings considered in this study.

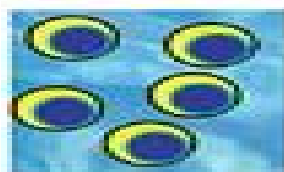
COLD - BLEND



Hard PVDF latex
Soft acrylic latex

- Fluoropolymer
- Acrylic
- Blend

CORE - SHELL



Hard PVDF core
Soft acrylic shell

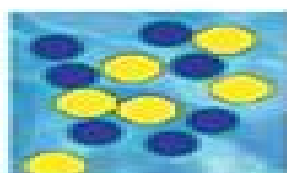
IPN PARTICLES



Soft PVDF plus
soft acrylic, well
mixed within each
latex particle

Figure 2/Expected resin morphology in film, based on three latex morphology cases.

COLD - BLEND



Inhomogeneous distribution
of hard PVDF particles in
acrylic continuous phase

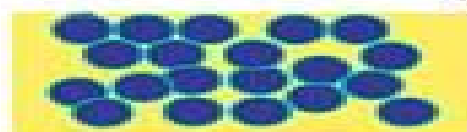


- Fluoropolymer
- Acrylic
- Blend

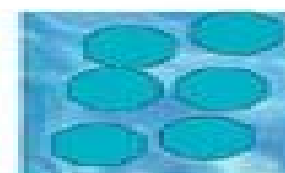
CORE - SHELL



Core-shell latex
morphology: acrylic
continuous phase,
with PVDF filler



IPN PARTICLES



Homogeneous
blend morphology
in latex and in
final film



PAINT

FILM

Heterogeneous Filmforming Latexes Preparation Morphology Mechanical Properties

Joseph Keddie, Alexander F. Routh



Heterogeneous Filmforming Latexes Preparation Morphology Mechanical Properties:

Heterogeneous Film-forming Latexes Ola Karlsson,1997 **Chemical Physics of Polymer Nanocomposites** Vera V. Myasoedova,Sabu Thomas,Hanna J. Maria,2024-07-17 Comprehensive knowledge on the preparation characterization and applications of polymer nanocomposites *Chemical Physics of Polymer Nanocomposites* examines the state of the art in preparation processing characterizing and applying a wide range of polymer nanocomposites elucidating nanofiller polymer interactions nanofiller dispersion distribution filler filler interactions and interface properties with a particular focus on the rheology of this important class of materials The dependence of the rheological properties on the preparation techniques is discussed in detail complemented by an overview of the processing approaches using conventional and micro injection molding extrusion compression molding film blowing pultrusion and resin transfer molding The book covers the latest understanding and accomplishments on polymer composites and presents the huge variety of this materials class Practice oriented with industry relevance it also reviews preparation characterization morphology properties applications sustainability and recyclability The topics covered in *Chemical Physics of Polymer Nanocomposites* include Classification of nano fillers nano objects nanomaterials and polymer nanocomposites based on chemical nature and identity and synthesis and characterization of nanoparticles General manufacturing methods and processes including melt and shear mixing manufacturing of polymer nanocomposites 1D nano fillers and polymer nanocomposites including polymer nanocomposites based on graphite nanoplatelets GNP and amphiphilic graphene platelets Polymer nanocomposites based on nano chitin starch and lignin gold nanowires titanium dioxide and graphene and graphene oxide *Chemical Physics of Polymer Nanocomposites* is an essential resource for materials scientists polymer chemists chemical engineers and engineering scientists in industry **Materials Science for High Technologies** ,1990 **Russian Chemical Reviews** ,1988

Process and Chemical Engineering ,1999 *The Engineering Index Annual* ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Current Awareness in Particle Technology** ,1992 *Journal of Applied Chemistry* ,1968 *The Effects of Urethane Methacrylates on the Film Properties of Acrylic-Urethane Hybrid Latexes* Anisa Cobaj,2019 Latexes are stable aqueous dispersions of polymeric particles prepared via emulsion polymerization process The requirements of high performing latex are to have good mechanical properties and a smooth film formation To achieve the required balance polymer composition and polymer morphology of latexes has been

modified A urethane methacrylate monomer MEM was synthesized via a non isocyanate pathway and incorporated into acrylic urethane hybrid latexes via seeded semi continuous monomer starved polymerization Acrylic urethane hybrid latexes were prepared by copolymerization of MEM with MMA and BA in homogeneous and core shell latexes Particle size and morphology was evaluated by DLS TEM and AFM The behavior of urethane monomer in acrylic latexes and the effect of urethane functionalized latexes on film formation viscoelastic and mechanical properties was studied via MFFT DMTA tensile and coatings testing Hydrogen bonding of urethanes with water had a plasticizing effect during film formation As a result Tg MFFT of acrylic urethane latexes was higher than that of acrylic latexes In comparison to the control acrylic latex acrylic urethane hybrids showed improvement in viscoelastic properties and in mechanical properties as function of MEM concentration in latexes Moreover core shell latexes outperformed homogeneous latexes Hydrogen bonding of MEM functionalized homogeneous and core shell latexes was quantified via ATR FTIR With more MEM in the homogeneous and core shell latexes hydrogen bonding strength was enhanced which was displayed by the frequency shift of both N H and C O stretching bands and by increase in the area of the hydrogen bonded N H and C O stretching bands Fraction of hydrogen bonded C O groups was calculated and compared for the homogeneous and core shell latexes as a function of increasing MEM concentration in latex A simplistic method to synthesize urethane methacrylate monomers without purification was used to prepare MEM and methacrylic acid MEM and MAA functionalized homogeneous latex systems were prepared via seeded semi continuous monomer starved conditions Particle size particle size distribution and morphology of latexes was evaluated via DLS and AFM Film formation viscoelastic and mechanical properties of acrylic urethane hybrid latexes were examined and the film properties were dependent on the concentration of MEM and MAA monomers in latex A composition drift was observed for high MEM MAA concentration in latex In the last chapter a di urethane methacrylate monomer HHM was synthesized via the isocyanate pathway and copolymerized with MMA and BA in a homogeneous latex Film formation viscoelastic and mechanical properties were improved with higher functionality of HHM in the system Particle size of latex was increased with higher HHM concentration in latex When keeping Tg the same lower MFFT was observed as the amount of HHM in latex increased

A Study of the Effects of Functionality on Certain Aspects of Crosslinkable Latex Systems

Erika P. Pedraza, 2006 Thermoset or crosslinkable latexes provide the cohesive strength and solvent resistance lacking in traditional thermoplastic latexes but required for industrial applications Crosslinking ability is achieved by incorporation of functional groups and subsequent ionic or covalent bond formation with a crosslinking resin However the type and level of functional groups as well as the addition and localization within the latex usually influences processes of synthesis film formation and mechanical properties The present work focused on assessing the effect of functionality on certain aspects of the preparation film formation and properties development of acrylic crosslinkable latexes Colloidal stability particle size and distribution film properties and morphology of core shell latexes were studied as function of

increasing content of functional monomers Stability of the system during synthesis limited the addition of functional groups A bimodal particle size distribution was observed for high concentrations of functional monomers Increase in carboxyl and hydroxyl functionalities improved tensile strength and modulus even for uncrosslinked films The incorporation of functionality along with crosslinking ability into acrylic bimodal latex blends was also investigated Bimodal latexes with varying functionality location were synthesized and characterized A melamine formaldehyde resin was used to crosslink the films The properties of the component latexes affected tensile strength and the structure of the films Packing of the composite systems was dependent on small to large particle content ratio and was affected by the presence of the resin used for crosslinking Finally acidic functionalized acrylic latexes were synthesized to study the influence of acid base interactions on film forming properties Two acids of varying strength were introduced through the copolymerization of MAA or 2 sulfoethyl methacrylate SEM Amines with varying boiling point and base strength were used for neutralization of the acid groups Drying parameters pH and amine evolution were monitored during drying of neutralized and unneutralized latex samples during drying Surface morphology was monitored during later stages of coalescence At ambient temperature amine volatility was the controlling factor on de blocking of weak acid groups For the stronger acid volatility was no longer significant as the process of de blocking was governed by the acid base equilibrium Abstract

Morphology of Core-shell Latexes and Their Mechanical Properties Michael P. Merkel, 1986 **Synthesis of Hybrid Latexes and**

Polymerization Kinetics of Functional Latexes Serkan Bas, 2009 Hydrophilic or hydrophobic functional monomers impart unusual properties to latexes The type amount and addition sequence of functional monomers affect the colloidal stability film formation and mechanical properties of latexes Carboxylic acid and hydroxyl functional monomers provide reactive sites for crosslinking The colloidal stability of latex particles can be enhanced by functional groups such as carboxylic acids The latexes with functional groups can also be used to graft inorganic materials to form hybrid materials Functional groups on the latexes not only determine the morphology of the latexes but also the polymerization kinetics The present work focused on assessing the effects of the type and the amount of functional monomers on the physical properties of hybrid latexes particle size solid content and glass transition temperature etc polymerization kinetics of core shell latexes and mechanical properties of thermoset latex films The first aim was to investigate the effect of hydrophobic groups such as polysiloxane on the physical properties of latexes Polysiloxane functionalized acrylic latexes were prepared by three different grafting techniques In the first method an acrylic core was prepared with the addition of a coupling agent 3 trimethoxysilyl propyl methacrylate after which a cyclic siloxane monomer octamethylcyclotetra siloxane D4 was grafted onto the coupling agent In the second method a methacrylate terminated polysiloxane was copolymerized with ethyl acrylate EA and 2 ethylhexyl acrylate EHA in batch emulsion polymerization In the third method D4 was added during emulsion polymerization of EA EHA and 2 hydroxyethyl methacrylate A core shell morphology was observed in transmission electron microscopy TEM for the

first preparation method Microphase separation was observed by atomic force microscopy AFM after polysiloxane functionalization for all latex films Energy dispersive X ray data indicated that only the hybrid latex by copolymerization of methacrylate terminated polysiloxane second grafting method resulted in higher silicon content at the film air interface than the film substrate interface In all methods storage modulus and surface energy of latex films decreased after polysiloxane functionalization of latexes Secondly the effect of polymerization of hydrophilic functional monomers with different types of surfactant on the polymerization kinetics was investigated A semi batch emulsion copolymerization of butyl acrylate BA methyl methacrylate MMA 2 hydroxyethyl methacrylate HEMA and methacrylic acid MAA was performed in which the concentration of HEMA in core MAA in shell and the type of surfactant two anionic and two nonionic were varied New particle formation occurred throughout the polymerization even under almost starved monomer conditions The instantaneous rate of polymerization was inversely proportional to the concentration of HEMA and MAA Secondary nucleation and limited coagulation were more significant when the anionic surfactant Triton X 200 was used In general the smallest particle size was obtained when Triton X 200 was used Generally the anionic surfactant Aerosol MA 80 yielded slower polymerization reactions which were attributed to high critical micelle concentration CMC compared to the other surfactants Finally the latexes with hydrophilic functional monomers were crosslinked to study the effects of crosslinker type on mechanical properties The latexes with varying concentrations of HEMA MAA and two types of surfactants Tergitol XJ Triton X 200 were crosslinked with five different types of crosslinkers Melamine formaldehyde MF resin was employed to crosslink hydroxyl functionalities in the core Carboxylic acid groups in the shell were crosslinked with zinc ammonium carbonate and N N1 dicyclohexylcarbodiimide Cycloaliphatic diepoxide and hexamethylene diisocyanate HDI isocyanurate were used to crosslink with hydroxyl or carboxyl functional groups in the core and the shell The toughest films were obtained when MF resin was used as crosslinker in the tensile test However zinc crosslinker yielded brittle films with very low toughness and pencil hardness The highest Young s modulus was obtained for the latex films when HDI isocyanurate or carbodiimide were used as crosslinker In general anionic surfactant Triton X 200 showed higher crosslink density compared to nonionic surfactant Tergitol XJ This was attributed to the broader particle size distribution of the latexes with Triton X 200 Dual cure thermal visible light process amide and acrylate functionalized latexes were prepared via semi batch emulsion polymerization Thermoset latex films were prepared by blending amide and acrylate functionalized latexes in different fractions 50 50 40 60 60 40 wt wt% The tensile dynamic mechanical and thermal properties of the thermoset films were evaluated The effect of the photosensitizer camphorquinone concentration was also investigated on mechanical and thermal properties Amide and acrylate functionalized latexes 50 50 wt wt were mixed with different amounts of methanolic camphorquinone and t butyl hydroperoxide relative to the amount of trimethylolpropane triacrylate 1 2 4 and 6 wt% methanolic camphorquinone and t butyl hydroperoxide The highest tensile modulus and elongation % was observed in amide and acrylate functionalized latex

with 50/50 wt% blend ratio. As the concentration of photosensitizer camphorquinone increased, storage modulus of films increased. Two glass transition temperatures were observed for the latex films. This could be attributed to the induced phase separation after the crosslinking of acrylic functionalities followed by thermally crosslinking between acetoacetoxy and amide functionalities.

Abstract Some Aspects of Film Formation from Pigmented Latex Systems Tianhua Ding, 2003. Film formation from pigmented latex systems consisting of soft i.e. low T_g poly n butyl methacrylate co n butyl acrylate P BMA BA latex particles and ground calcium carbonate GCC pigment particles were studied with an emphasis on the synthesis of functionalized model latex particles and the influence of the carboxyl groups present on the latex particles on the drying kinetics, film surface properties, bulk morphology and the mechanical properties of the film. A theoretical model was developed to calculate the maximum co monomer feed rate for maintaining a highly monomer starved condition in semi continuous emulsion polymerization processes to synthesize monodisperse carboxylated and non carboxylated model latex particles and independently control the particle size and degree of carboxylation. The presence of carboxyl groups on the latex particles was found to facilitate the drying rates of the latex pigment blend films. The carboxyl groups on the latex particles lead to smaller pigment aggregate size in the film and a more even size distribution in the polymer matrix. With higher carboxyl group surface coverage on latex particles, the resulting blend films have a higher surface gloss, which indicates a smoother film surface. The presence of carboxyl groups on the latex particles significantly enhanced the Young's modulus and the yield strength of the latex pigment blend films. Ionic interactions between neutralized carboxyl groups themselves and between neutralized carboxyl groups and pigment particles were proposed to explain these phenomena. A quantitative model was proposed to predict the Young's modulus of the latex pigment blend films as a function of the carboxyl group coverage on the latex particles. There was a good agreement between the model and the experimental data.

Fundamentals of Latex Film Formation Joseph Keddie, Alexander F. Routh, 2010-02-18. This book has emerged out of our long time research interests on the topic of latex film formation. Over the years we have built up a repertoire of slides used in conference presentations, short courses and tutorials on the topic. The story presented in this book has thereby taken shape as it has been told and re told to a mix of academic and industrial audiences. The book presents a wide body of work accumulated by the polymer colloids community over the past five decades, but the selection of examples has been flavoured by our particular experimental interests and development of mathematical models. We intend the book to be a starting point for academic and industrial scientists beginning research on latex film formation. The emphasis is on fundamental mechanisms, however, and not on applications nor on specific effects of formulations. We hope that the book consolidates the understanding that has been achieved to date in the literature in a more comprehensive way than is possible in a review article. We trust that the reader will appreciate the fascination of the topic.

Composite Latex Systems Sarah Allport, University of Manchester, Department of Chemistry, 1991. *Polymer Latexes*, 1992. *About Morphology of Grafted*

Ethylene-propylene(-diene) Copolymers-based Latexes Delphine Lucienne Tillier,2005 *Synthesis and Polymerization Kinetics of Emulsion Polymers* Serkan Bas,2010-06 Hydrophilic or hydrophobic functional monomers impart unusual properties to latexes The type amount and addition sequence of functional monomers affect the colloidal stability film formation and mechanical properties of latexes Carboxylic acid and hydroxyl functional monomers provide reactive sites for crosslinking The colloidal stability of latex particles can be enhanced by functional groups such as carboxylic acids The latexes with functional groups can also be used to graft inorganic materials to form hybrid materials Functional groups on the latexes not only determine the morphology of the latexes but also the polymerization kinetics The present work focused on assessing the effects of the type and the amount of functional monomers on the physical properties of hybrid latexes particle size solid content and glass transition temperature etc polymerization kinetics of core shell latexes and mechanical properties of thermoset latex films Effects of Processing and Additives on the Morphology, Thermal, and Mechanical Properties of ABA-type Elastomeric Films Alexander James Neeb,1999 **The Mechanical Properties of Latex-treated Papers** William Theodore Heyse,1959

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