## CONTENTS AND SUBJECT INDEX

	INTRODUCTION	1
1.	Epoxy Crystalline 2,2-Bis(2,3-Epoxypropoxyphenyl)Propane Epoxy Esters of Polycarboxylic Aromatic Acids Poly[4-(4-Cyclohexy methyl) Cyclohexyl Sebacamidel Linear Polyamides, Epoxy Resin Polyamide Resin with Phenolic Flux Polyamide Curing Agent, Reaction Product of Alkylated Phenol and a Polyamine Sulfanilamide, Dicyandiamide Curative System Aziridinyl Curing Agents, Sulfamic Acid Catalyst Pyromellitic Dianhydride Curing Agent, High Temperature Systems Sulfone, Epoxy Siloxane Monomer & Reactive Solvent Polyaminodiphenylsulfones, High Temperature Adhesive Use of Phenolic Ketones in High Temperature Adhesives Polyisophthalamides for Metallic Containers Polyester, Phenoxy Adhesive for Metallic Containers Carboxylated Vinyl Polymers, Epoxidized Soybean Oil Epoxy Novolak, Zinc Chromate for Seawater Resistance Epoxyalkanoic Acid Primer, Uranium Metal Joining of Metal Stampings Irrigation Pipe, Tubular Metallic Foil Thermoplastic Polyhydroxyethers Urethane Polyester-Urethane for Metallic Containers Epoxy Silane Addition to Improve Water Resistance Polyurethane Resin Blended with Monomeric Glycidyl Ester Epoxy Modified, Lead Naphthenate Catalyst	2 2 2 4 6 8 11 13 14 16 21 22 25 27 30 32 44 44 48 51 55 55 57 58 60
2.	FIBER TO RUBBER BONDING FOR TIRE CORD  Epoxy  Epoxy Novolak, Polyamide Resin Epoxy Novolak, Polypeptide, Vinyl Pyridine-Containing Terpolymer 2-Pyrrolidone, Polyepoxide, RFL Dip Polyepoxide Followed by RFL Dip Polyepoxide, Caprolactam, RFL Dip Polyepoxide, Urethane, RFL Dip Two-Step Treatment Using Curable Epoxy and RFL Glycidyl Methacrylate-Butadiene Copolymer, RFL Polyester-Butyl Adhesion Alkenyl Epoxy-Diene Copolymers Epoxidized α-Olefin/Nonconjugated Diene Copolymers Epoxidized Rubber Compositions, Wire Reinforcement	63 63 67 72 75 79 82 85 88 90 92 98

v

## Contents and Subject Index

	<ul> <li>Urethane, Isocyanate</li> <li>RFL Blocked Polyisocyanate</li> <li>Phenol Blocked Isocyanate, Polymeric Modified Triisocyanate</li> <li>Methylolated Blocked Polyisocyanate, RFL Dip</li> <li>Unsaturated Polyester-Polyurethane</li> <li>Polyisocyanate Modified Resorcinol-Formaldehyde Resins</li> <li>Monoisocyanate Condensed Resorcinol-Aldehyde Resins</li> <li>Sulfochlorinated, Maleic Modified, Olefin Copolymers</li> <li>Filled Polyalkaleneether-Polyurethane Elastomer</li> <li>Methylene Bis(4-Phenylisocyanate) Primer</li> </ul>	107 107 111 114 119 124 125 127 132
3.	GLASS AND CERAMIC ADHESIVES  Epoxy, Glass-Filled Laminates  Polyepoxy Ethers of Polyhydric Phenols Reaction with Aniline-Formaldehyde Resins Phenol-Formaldehyde, Epoxy, Phenyl Silicone Condensates Piperidine, Titanate Catalysts Epoxy, Aminoalkyl Trialkoxysilane Thermoset Binders, Amino, Epoxy Triethoxy Silanes Silane Modified Thermoplastic Resins Epoxy, Ceramics, Glass to Metal Amino Silane Addition, Glass Container Bonding Triglycidyl Isocyanurate, Alkali Metal Silicates Cementitious Mortar Thixotropic, Nonflowing Adhesive for Ceramic Tiles Epoxy Grout Composition, Molecular Sieve Catalyst Carrier Titanium Dioxide Filled Epoxy System, Metal-Glass Adhesion Polysulfide, Metal-Glass Adhesion Urethane Diisocyanate-Unsaturated Diol Reaction Products, Filled Laminates Ethylene/Vinyl Acetate Copolymers, Safety Glass Laminates Safety Glass Manufacture	138 138 139 141 142 143 146 149 154 156 157 160 164 166 170 172 173 175
4.	POLYMER TO POLYMER BONDING  Epoxy  Epoxy-Carboxylated Acrylic, Polytrifluorocarbon Bonding Nylon Particle Filled Systems Bonding of Epoxide Putty to Polyethylene Flame Treatment of Polystyrene Polyepoxides-Dimer Fatty Acid Products, Mylar to Polyethylene Lamination of Textile Fabrics to Urethane Polymers Urethane and Isocyanate Blends with Elastomers and Polyvinyl Chloride for Fabric Coating Polycarbonate Resin Bonding to Cellulose Ester Piperazine Polyurethane for Polyester Film Splicing Silicone-Organic Elastomer Binding Alkyl Benzene Diisocyanate Rubber Adhesives	182 182 183 184 187 188 190 192 193 195 197
5.	PLASTICTOMETALBONDING  Epoxy  Polyvinyl Fluoride Lamination - Aqueous Emulsion Polyamide Bonding Silicone Rubber Epoxy, Aromatic Nitroso Compounds, Elastomer Bonding Urethane and Isocyanate Chlorosulfonated Polyethylene for Elastomer Bonding Chlorosulfonated Polyolefins, Polyisocyanate, EPDM Bonding Chlorinated Acrylonitrile, Benzidine Diisocyanate Primers Thermoplastic Polyvinyl Chloride for Urethane Bonding Polyesteramide-Diisocyanate Reaction Product, Laminated Foam	201 201 201 207 209 209 212 213 215 216 218

## Contents and Subject Index

6.	PAPER AND WOOD ADHESIVES	220
	Epoxy	220
	Polyethylene, Rosin, Polyamide-Epoxy, Cardboard Adhesives	220
	Polymerizable Oxirane Triazine Compounds	224
	Methyl Methacrylate/Methacrylic Acid Copolymers with Diepoxides and	
	PVF Laminates	226
	Neoprene, Terpene-Phenolic, Phenol-Formaldehyde	229
	Polyvinyl Chloride Adhesion to Masonite	231
	Stainless Steel Laminate	234
	Epoxylated Novolak, Plywood Containers	235
	Wood Surfaced Floor Covering	241
	Adhesive Bonding, Wood Treatment	243
	Urethane	245
	Terpene-Containing Urethane, Hot Melt Paper Adhesive	245
7.	MISCELLANEOUS APPLICATIONS OF GENERAL PURPOSE ADHESIVES	249
	Epoxy	249
	Aminoamides of Polymeric Fatty Acids as Curing Agents	249
	C <sub>1</sub> to C <sub>4</sub> Alkylureas as Latent Curing Agents	250
	Blends with Acrylonitrile Butadiene-Styrene Graft Copolymers	253
	Cyanoacrylate Adhesives	257
	Water Activated Epoxy Compositions	259
	Low Viscosity Polyepoxides	260
	Amino-Organosilicon Compounds, Reaction Products with Adhesives	262
	Internal Sealing of Gas Main Joints	268
	Pipe Adhesive	269
	Urethane	272
	Nitropolyurethane Compositions for Solid Propellant Binders	272
	COMPANY INDEX	276
	INVENTOR INDEX	277
	LIS PATENT NUMBER INDEX	270