

THE ASI 50

This issue of *Adhesives & Sealants Industry* magazine brings you the fifth annual listing of the country's top manufacturers of adhesives/sealants; pressure sensitives; and adhesives/sealants products (tapes, labels). Companies are listed in alphabetical order. ASI directly contacted each of the companies listed, and over 94% of them responded with their most current information. Included with each company's listing is contact information, estimated 2001 adhesives and sealants sales figures (if publishable), subsidiaries and recent acquisitions, and a company profile.

While our staff made every effort to seek out the top companies in the industry, we may have inadvertently omitted some companies. We will work throughout the year to provide any changes or updates on our Web site version of the ASI 50 and in next year's ASI 50 issue. To include your company in our listing, contact Kristin Johansson at johanssonk@bnp.com, or call 248-641-0592. To view the listing online, visit www.adhesivesmag.com.

Adchem Corp.

1852 Old Country Rd.
Riverhead, NY 11901-3144
631-727-6000
www.adchem.com

Company Contact: Les Erikson, vice president, sales and marketing

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Founded in 1966, Adchem manufactures adhesive films, double-coated adhesive tapes and custom-coated products. The company is an ISO-9001-certified and A2LA-accredited organization. (Privately held)

ADC0 Products, Inc. (Operating subsidiary of ADC0 Global, Inc.)

4401 Page Ave.
Michigan Center, MI 49254
800-248-4010
www.adcoglobal.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$200 million

Subsidiaries or Recent Acquisitions: Kömmerling Chemische Fabrik GmbH

ADC0 Products, Inc., specializes in manufacturing and designing adhesives and sealants for the following markets: automotive replacement glass, automotive OEM, commercial roofing, window manufacturing, concrete pipes, burial vaults, appliance, electrical/communications, and vehicle-body repair (crash repair). The company's core technologies are synthetic elastomers (rubber), UV-cured acrylic tape and polyurethanes. ADC0 is ISO-9001- and QS-9000-registered. (Privately held)

Adhesives Research Inc.

400 Seaks Run Road
PO Box 100
Glen Rock, PA 17327
800-445-6240; 717-764-6320
www.adhesivesresearch.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$97.4 million

Adhesives Research, Inc., is a leading global developer and manufacturer of custom, high-performance pressure sensitive adhesive systems, coatings and tape technologies for the following sectors: medical (in-vitro diagnostics, wound care, medical devices); pharmaceutical (transdermal drug delivery, cosmetics, personal care and consumer); industrial (display screens, automotive, window fabrication); electronics (hard drive assembly, telecommunications, electronics assembly); and splicing (pulp and paper, laminating, and converting). Corporate headquarters: Glen Rock, Pa.; sales offices: U.K., Germany, France, Singapore, and Korea; manufacturing sites: United States (Pa.), Ireland, Australia and Columbia. ISO 9001:2000-certified. (Privately held).

American Biltrite Inc., Tape Products Division

105 Whittendale Drive
Moorestown, NJ 08057
856-778-0700
www.abtape.com

Company Contact: C. Michael Donnelly Jr.

Estimated 2001 Worldwide Adhesives and Sealants Sales: >\$95 million

The Tape Products Division is a leading and highly diversified producer of pressure sensitive materials used by automobile manufacturers, commercial-graphics professionals, sign makers, metal polishers, acrylic and polycarbonate sheet manufacturers, HVAC contractors, shoe producers, and manufacturers of circuit boards and electric motors.

Ashland Specialty Chemical Co., Specialty Polymers and Adhesives Division

PO Box 2219
Columbus, OH 43216
800-322-6580
www.ashchem.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Ashland's SP&A Division is a leading, worldwide producer of high-performance adhesives and specialty resins serving the following industries: transportation (automotive, truck, recreational vehicles, marine and aerospace); building and construction (commercial roofing, engineered wood products, laminated panels, windows and doors); packaging and converting (pressure sensitive, film laminating, case-and-carton sealing and labeling); and industrial (product assembly and general lamination). SP&A is a chemistry innovator with novel families of technology: pressure sensitive (solution acrylic, emulsion acrylic, ultraviolet-cured, hot melt and rubber-based); structural (2K urethane, 100-percent reactive urethane, rubber-based, epoxy, reactive hot melt and electromagnetic welded); and lamination (phenolic, nitrile phenolic, water-based urethane, EVA, EB-cured and 2K urethane).

Avery Dennison Corp.

** Information repeated from last year

150 N. Orange Grove Blvd.
Pasadena, CA 91103
626-304-2000
www.averydennison.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Avery Dennison is a global leader in pressure sensitive technology and innovative self-adhesive solutions for consumer products and label materials. Based in Pasadena, Calif., the company had 2001 total sales of \$3.8 billion. Avery Dennison develops, manufactures and markets a wide range of products for consumer and industrial markets, including Avery-brand office products, Fasson-brand self-adhesive materials, peel-and-stick postage stamps, battery labels, reflective highway-safety products, automated retail tag and labeling systems, and specialty tapes and chemicals.

Borden Inc.

180 E. Broad St.
Columbus, OH 43215
614-225-4000

****Estimated 2001 Worldwide Adhesives and Sealants Sales:** \$1.62 billion

This company's chemical division manufactures hot melt adhesives as well as consumer products (Elmer's Glue) and thermosetting resins.

Bostik Findley, Inc.

11320 Watertown Plank Rd.
Wauwatosa, WI 53226-3434
414-774-2250

www.bostikfindley-us.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: 1.1 billion (including Bostik Findley S.A.)

Bostik Findley, Inc., is a global organization selling a wide variety of adhesives, sealants, coatings and related compounds to the nonwoven disposable/hygiene, packaging, converting, assembly, industrial, construction, flooring, DIY (Do-It-Yourself), transportation, textile, and laminating marketplaces. This is accomplished through a network of direct sales and distributors. Bostik Findley is a subsidiary of AtoFina Chemicals, with the parent company being TotalFinaElf, Paris.

Chemence Inc.

185 Bluegrass Valley Pkwy.
Alpharetta, GA 30004
770-664-6624
www.Chemence-US.com

Company Contact: Peter D. Battisti, VP Marketing

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$50 million

U.S. Subsidiaries or Recent Acquisitions: Vericol, Dalton, Ga.

Chemence is a manufacturer of cyanoacrylate, anaerobic, solvent-based, two-part epoxy, two-part acrylic, two-part methacrylate, and UV-curing adhesives and sealants. Chemence is the world leader in gas-main sealing, the North American leader in vacuum-impregnation sealants and number two in the United States in the manufacture of liquid photopolymers. (Privately held)

ChemRex Inc. (part of Degussa Construction Chemicals)

889 Valley Pk. Dr.
Shakopee, MN 55379
952-496-6000
www.chemrex.com

Company Contact: Bill McCann

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

ChemRex Inc. is an industry leader in the manufacture of chemical products for the commercial construction, transportation and flooring markets. It is the worldwide center for polyurethane technology in the Degussa Construction Chemicals Americas Group. Recognized brand names are Sonneborn®, Thoro®, ThoRoc™, Hydrozo®, MBT Protection and Repair, and CHEMREX®, which offer a variety of architectural and specialty sealant and adhesive, concrete repair, coating, and waterproofing products. (Privately held)

Devcon (part of Illinois Tool Works)

30 Endicott St.
Danvers, MA 01923
800-343-7026
www.devcon.com

Company Contact: Dave Bongiorno, market development manager

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

A world leader in adhesive technology, Devcon offers a complete line of high-strength epoxies, advanced methacrylates, fast-curing cyanoacrylates and chemical-resistant anaerobics. Products include adhesives for OEM assembly operations as well as for repairing machinery. A line of coatings protects surfaces against abrasion, corrosion and chemical attack.

Dow Automotive

1250 Harmon Road
Auburn Hills, MI 48326
248-391-6300

www.dowautomotive.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Dow Automotive provides materials and systems solutions for automotive interior, exterior, chassis/powertrain, structural enhancement, and thermal and acoustical management. The global integration of Essex companies broadened offerings to include glass bonding and sealer systems, reinforcing composites, and acoustical foams. The company's design, engineering, prototype/tooling, testing and program-management expertise assures optimized solutions for customer needs. Dow Automotive is a business unit of The Dow Chemical Co. and its subsidiaries.

Dow Corning Corp.

PO Box 0994
Midland, MI 48686-0994
989-496-6000

www.dowcorning.com

Company Contact: Customer Service Dept.

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Dow Corning supplies high-performance adhesives and sealants for aerospace, automotive, construction, electrical, electronics, plastics, pressure sensitive applications, textiles and general industrial uses, as well as a wide range of internal/external release agents and coatings. Products include formulations for extreme temperatures, solvent resistance, thermal conductivity and neutral-cure applications. (Privately held)

EMS-GRILTECH

A unit of EMS-CHEMIE (North America) Inc.

2060 Corporate Way
PO Box 1717
Sumter, SC 29151-1717
803-481-6190

www.emsgriltech.com

Company Contact: Guido Hobi

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$132 million

EMS-CHEMIE (North America) Inc. is a subsidiary of EMS-CHEMIE of Switzerland. The business division, Technical Fibers and Adhesives, offers a line of Griltext® CoPA and CoPES adhesive products. Markets served include transportation, paper, industrial and consumer goods.

FLEXcon

1 FLEXcon Industrial Park
Spencer, MA 01562
508-885-8200
www.FLEXcon.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication
FLEXcon, a leading supplier of pressure sensitive film, offers more than 10,000 made-to-order and standard off-the-shelf products each year. FLEXcon works closely with customers to create value-added solutions, providing the best-balanced choice of performance, cost effectiveness and availability. The company combines applications expertise with polymeric materials technology to provide product identification, promotion, security, labeling, packaging and bonding solutions. FLEXcon is ISO-9001-certified, with worldwide manufacturing, distribution and sales. (Privately held)

Forbo Adhesives, LLC

PO Box 110447
Research Triangle Park, NC 27709-0447
800-431-1920
www.forbo.com

Company Contact: Dick Maxwell, director of marketing

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$270 million

Forbo Adhesives (previously Reichhold) is a global supplier of synthetic polymers to adhesives formulators and provides a full line of formulated adhesives to a wide variety of end-use markets, including automotive, converting, graphic arts, textiles, packaging and product assembly. Brand names include Swift® adhesives, Elvace®, PACE®, Plyamul®, Wallpol® synthetic polymers, and Lyons Coatings®.

Franklin International

2020 Bruck St.
Columbus, OH 43207
800-877-4583

www.franklininternational.com or www.titebond.com

Company Contact: Craig Stone, director of marketing

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$107.2 million

Franklin International is an adhesives manufacturer founded in 1935. Today, the company has over 450 employees and distributes products globally. Its core competency of emulsion polymerization provides vertical integration for glues, adhesives, hot melts, binders, films, sizing compounds and much more. These products serve various markets, including retail, distribution, commercial, furniture manufacturing, millwork, paper converting, pressure sensitive, fiberglass reinforcement, screen printing and nonwovens. (Privately held)

GE Sealants & Adhesives (a subsidiary of General Electric Co.)

16325 Northcross Dr.

Waterford, NY 12188

704-655-2000

www.gesealants.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Subsidiaries or Recent Acquisitions: Macklanburg/Duncan

This company is a leader in silicone, acrylic and adhesives for consumer, construction and industrial applications. Products are sold through home centers, hardware chains, construction and professional distributors channels.

H.B. Fuller Co.

1200 Willow Lake Blvd.

St. Paul, MN 55110-5101

651-236-5900

www.hbfuller.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$1.275 billion

H.B. Fuller Co. is a 115-year-old worldwide manufacturer of adhesives, sealants, coatings, paints and other specialty chemicals, with direct operations in 36 countries and customers in more than 100. Key markets include assembly, automotive, construction, converting, footwear, graphic arts, nonwovens, packaging and powder coatings. The company is ISO-certified at 36 sites.

Henkel Adhesives (a division of the Henkel Group)

1345 Gasket Dr.

Elgin, IL 60120

847-468-9200

www.industrial-adhesives.com

Company Contact: Emily Sassman

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$2.7 billion

Henkel Adhesives provides more than 2,000 adhesives for industry. Sectors include high-tech adhesives for automotive, electronics and medical, as well as adhesives used in paper converting, food processing, packaging, product assembly and virtually all areas of manufacturing, DIY and consumer products. Product technologies are customized for each market segment for customer needs. (Privately held)

Henkel Loctite Corp. (A division of the Henkel Group)

1001 Trout Brook Crossing

Rocky Hill, CT 06067

800-562-8483

www.loctite.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$997 million

Subsidiaries or Recent Acquisitions: Dexter Corp.'s Electronic Materials, Adhesives, and Polymer Systems business; Multicore; Power Devices

This worldwide, market-driven specialty-chemical company is a part of the Henkel Technologies Div., and provides engineering adhesives, sealants and coatings directly to OEMs and through a network of industrial distribution. The company's products are used in the electronics, automotive, aerospace, facility and equipment maintenance and repair, OEM, and specialized medical markets. Henkel Loctite works closely with customer companies to provide manufacturing and maintenance solutions, including custom adhesive formulations and new technologies. The company is an industry leader in cyanoacrylates, anaerobics, UV- and visible-light-curing adhesives, specialty epoxies, silicones, and dispensing and curing equipment. (DAX - German stock index)

Intertape Polymer Group (IPG)

110E Montee de Liesse, St-Laurent, Quebec H4T 1N4, Canada

514-731-7591 or 800-724-3925

www.intertapepolymer.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Headquartered in Montreal, Quebec, this company has strategically grown to support operations in 23 locations including 17 manufacturing facilities, with approximately 2,900 employees. IPG's advanced manufacturing technologies offer the flexibility to produce a wide range of products that reflect the needs of our customers. Products include Intertape® brand hot melt, acrylic and

natural rubber pressure sensitive carton-sealing tapes; water-activated carton-sealing tape; masking tape; cloth duct tape; HVAC tape; and automotive high-performance and specialty tapes. (Privately held)

ITW Performance Polymers (part of Illinois Tool Works)

30 Endicott St.

Danvers, MA 01923

978-777-1100

www.itwperformers.com

Company Contact: David Parry, general manager

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Subsidiaries or Recent Acquisitions: Quimica TF and Syon Corp.

ITW Performance Polymers produces and sells adhesives and sealants to original equipment manufacturers, as well as maintenance/repair products, directly and through a worldwide network of industrial distributors. Major markets include industrial maintenance and repair, marine, automotive, transportation, solid surface, construction, manufactured housing, and automotive aftermarket.

Jowat Corp.

Randolph Industrial Park

6058 Lois Lane

High Point, NC 27261

336-434-9000

www.jowat.com

****Estimated 2001 Worldwide Adhesives and Sealants Sales:** \$135 million

Jowat was founded in 1919 and is a manufacturer of adhesives with customers in 80 countries and 450 employees worldwide. Its adhesives are used in the furniture, packaging/paper, textile and automotive industries. Jowat manufactures hot melt, water-based, solvent-based and reactive adhesives, and distributes its products to customers throughout the world. (Privately held)

Lord Corp.

2000 W. Grandview Blvd.

Erie, PA 16514

800-243-6565

www.lord.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$425 million

U.S. Subsidiaries or Recent Acquisitions: Metech, Inc.

Lord Corp. manufactures a broad range of adhesives and coatings for the automotive, industrial and electronic markets. Included are: Chemlok® adhesives; Aqualast™ elastomer emulsions; Autoseal™ adhesives and coatings; Fusor® adhesives; Versalok® adhesives; Chemglaze® coatings; Photoglaze® UV/EB coatings; Lord® engineered adhesives; Thermoset® adhesives, coatings and encapsulants; Motorguard™ coatings; and Metal Jacket™ and Flock-Lok® adhesives. (Privately held)

3M

3M Center

Engineered Adhesives Division

Building 220-7E-01

St. Paul, MN 55144-1000

800-362-3550

www.3m.com/adhesives

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

3M is one of the world's premier manufacturing companies with operations in more than 60 countries with over half of its sales coming from international operations. For nearly a century, 3M's culture has fostered creativity and given employees the freedom to take risks and try new ideas. This culture has led to a steady stream of products that range from adhesives to micro-replication and has made way for more than 50,000 innovative products that help make our world better. Creating innovative products and services that respond to customer needs has always been a way of life at 3M.

MACTac (Morgan Adhesives Co.) (part of The Bemis Co.)

4560 Darrow Rd.

Stow, OH 44224-1898

330-688-1111

www.MACTac.com

Company Contact: John Chapell

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$500 million

MACTac is part of the Bemis Co., Inc., Minneapolis. Bemis is a major supplier of flexible packaging and pressure sensitive materials used worldwide by leading food, consumer products, manufacturing and other businesses. MACTac manufactures adhesive-coated paper, plastic and vinyl films used in a wide variety of labeling, signage, fleet marking, and specialized industrial and technical applications.

National Adhesives, a division of National Starch and Chemical Co.

10 FINDERNE AVE.
BRIDGEWATER, NJ 08807
800-797-4992

www.nationalstarch.com

Company Contact: Joya Chakrabarti

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$1.07 billion

U.S. Subsidiaries: Emerson & Cuming, Permabond, Ablestik, Alco, Tra-Con, Acheson National Starch and Chemical Co. is a worldwide, science-based company dedicated to helping customers through quality improvements, productivity increases, greater cost efficiencies and service enhancements. The company formulates and manufactures adhesives, specialty polymers, electronic and engineering materials, natural polymers, and advanced ingredients, with sales of \$2.6 billion. National Adhesives, a division of National Starch, is a wholly owned subsidiary of ICI Plc.

National Casein Co.

601 W. 80th St.
Chicago, IL 60620
773-846-7300

www.nationalcasein.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication
National Casein is a leading manufacturer of environmentally friendly adhesives for the woodworking, furniture and millwork industries. Since being incorporated in 1921, the company has become an international supplier for these industries. (Privately held)

Pacer Technology

9420 Santa Anita
Rancho Cucamonga, CA 91730
909-987-0550

www.pacertechnology.com

Company Contact: Greg Lindsay

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$27 million

Pacer Technology is a manufacturing, packaging and distribution company engaged in marketing advanced-technology adhesives, sealants and other related products for consumer, industrial, hobby, automotive, cosmetic and private-label markets on a worldwide basis. It is the provider of Super Glue, ZAP®, Pro Seal® and other well-known brands.

Permacel®, A Nitto Denko Co.

PO Box 671-T
New Brunswick, NJ 08903
800-755-8273

www.permacel.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication
This company has earned a reputation as a pioneer in the field of pressure sensitive tapes by developing new products through innovative, proprietary technologies. Currently, Permacel develops, manufactures and markets 350 kinds of tapes used for the manufacturing process in the electrical, electronics, automobile, aerospace and graphic arts industries. In joining the Nitto Denko group, Permacel also began producing a variety of Nitto Denko products. With its expanded product line, Permacel serves an increasingly broad market.

Plexus (part of Illinois Tool Works)

30 Endicott St.
Danvers, MA 01923
800-851-6692

www.itwplexus.com

Company Contact: Susan Hennessey

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication
Plexus adhesives are widely used for structural bonding of today's difficult-to-bond engineered plastics, advanced composites and other dissimilar substrates in the marine, automotive, transportation, recreational vehicle and construction industries. These adhesives reduce assembly times and increase plant throughput by up to 200%. They require no sanding or grinding and cure rapidly at room temperature.

Plymouth Rubber Co. Inc.

104 Revere St.
Canton, MA 02021
781-828-0220

www.plymouthrubber.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$65 million

Subsidiaries or Recent Acquisitions: Brite-Line and Plymouth Rubber Europe

Plymouth Rubber Co. Inc. manufactures and supplies rubber and vinyl products to a broad range of markets, including the electrical-supply industry, utilities, automotive and other original equipment manufacturers, and highway-stripping contractors. These products include electrical tapes, automotive harness tapes, industrial tapes and films, and highway pavement-marking tapes.

The Reynolds Co.

PO Box 1925
Greenville, SC 29602
864-232-6791

www.reynoldsglue.com

Company Contact: E. Hays Reynolds III

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$33 million

The Reynolds Co. is a manufacturer of water-based, hot melt and dry-blended adhesives. The company also manufactures a variety of toll-blended and specialty coatings for various industries. Most of its bulk shipments are made via its company-owned trucking fleet. (Privately held)

Rohm and Haas Co.

100 Independence Mall West
Philadelphia, PA 19106-2399
215-592-3000

www.rohmhaas.com

Company Contact: Cristiana Grillo-Bontemps

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$661 million

Subsidiaries or Recent Acquisitions: Morton International, acquired in 1999; the flexible packaging adhesives business of Technical Coatings Co., a subsidiary of Benjamin Moore & Co. of New Jersey, November 2001; Megum™ rubber-to-metal bonding business from Chemetall Co. of Frankfurt, Germany, October 2001

Rohm and Haas is a leading supplier of adhesives that are used in packaging, construction, transportation and a host of converting industries. Products include: pressure sensitive adhesives for paper and film labels, decals and consumer, industrial and specialty tapes; laminating adhesives, cold-seal adhesives, coatings, primers and resins for flexible packaging, graphic arts and a host of laminating applications; acrylic polymers for construction adhesives and sealants; adhesives for the automotive industry, including car-interior parts, weather-strip applications and rubber-to-metal bonding agents; adhesives for rigid laminates such as structural panels; and reactive hot melts for the textile industry.

Royal Adhesives & Sealants

2001 W. Washington St.
South Bend, IN 46628
574-246-5301

www.royaladhesives.com

Company Contact: James T. Elgin

Estimated 2001 Worldwide Adhesives and Sealants Sales: >\$31 million

Royal Adhesives & Sealants (previously Uniroyal Adhesives & Sealants) is a supplier/manufacturer of solvent- and water-based adhesives and sealants, along with one-part polyurethane adhesive sealants under the Silaprene® brand name. The company also provides Hydra-Fast-En® water-based contact cements and Gunther™ mirror mastics. The company is a division of Quest Specialty Chemical, Inc. (Privately held)

RPM, Inc.

2628 Pearl Rd.
PO Box 777
Medina, OH 44258
330-273-5090

www.rpminc.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$400 million

Subsidiaries or Recent Acquisitions: Consumer subsidiaries include Rust-Oleum, DAP, Zinsser, Flecto and Bondo. Industrial subsidiaries include Stonhard, Tremco, Carboline, Day-Glo and Dryvit.

RPM, Inc., is a world leader in specialty coatings, serving both industrial and consumer markets. DAP is the leading marketer of caulks, sealants, adhesives, spackles, glazings and other general patch and repair products. Tremco sells its roofing systems and sealant products to customers primarily in building, construction, building maintenance and retail markets.

Scapa North America (part of the Scapa Group, plc)

111 Great Pond Dr.
Windsor, CT 06095
860-688-8000

www.scapana.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$318 million

Scapa designs and manufactures custom-engineered adhesive films, tapes and compounds for the automotive, cable, construction, industrial-assembly, medical, printing and graphics, and

sports and entertainment markets. Products include specialty unsupported adhesive-transfer films; single-coated tapes; double-coated films; single-coated foam tapes; double-coated mounting tapes; and zero-halogen, low-smoke, fire-retardant compounds.

Schnee-Morehead Inc.

111 N. Nursery Rd.
Irving, TX 75060
972-438-9111
www.trustsm.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

This company is a leading manufacturer of waterborne, urethane, butyl, silicone and foam sealants. Industries served include fenestration, construction, fire protection, aerospace, transportation, automotive and HVAC.

Sika Corp.

30800 Stephenson Hwy.
Madison Heights, MI 48071
248-577-0020
www.sikasolutions.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$1.2 billion

Sika is a global manufacturer of specialty chemicals for industrial, construction, automotive, and marine markets. The company's line of adhesives and sealants includes products based on polyurethane, epoxy, butyl and acrylic technologies. These materials are offered in single- and two-component, cold- and hot-applied systems offering a wide range of handling characteristics. Cured properties range from highly elastic for sealing to high strength for bonding.

Solutia Inc.

575 Maryville Center Dr.
St Louis, MO 63141
314-674-5689
www.solutia.com

Company Contact: Winsor Cho

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Based in St. Louis, Solutia uses its world-class skills in applied chemistry to create solutions for customers whose products are used by consumers around the globe every day. In 2002, its Gelva product line (solvent and emulsion acrylic pressure sensitive adhesives) has been expanded in all world areas. New production has been started in Europe, and application labs have been set up around the world. In addition to Gelva pressure sensitive adhesives, Solutia is a recognized leader in a variety of markets — including resins and additives for high-value coatings, performance films for laminated safety glass and after-market applications; process research, process development and scale-up services for pharmaceutical fine chemicals; specialties such as aviation hydraulic fluid and environmentally friendly cleaning solvents for aviation; and an integrated family of nylon products including high-performance polymers and fibers.

Sovereign Specialty Chemicals, Inc.

225 W. Washington St., Suite 2200
Chicago, IL 60606
312-419-7100
www.sovereignsc.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$357 million

Subsidiaries or Recent Acquisitions: Pierce & Stevens Corp., OSI Sealants, SIA Adhesives, Tanner Chemicals, Imperial Adhesives and Croda Adhesives

Sovereign Specialty Chemicals, Inc., is a leading developer and supplier of high-performance specialty adhesives, coatings and sealants serving three markets: packaging and converting, industrial, and construction. Since 1996, Sovereign has grown rapidly — through the strategic acquisition of established niche leaders — to become the largest privately owned adhesives manufacturer in the United States and one of the largest adhesives manufacturers in the world, public or private. Headquartered in Chicago, Sovereign comprises over 1,000 employees working in 20 manufacturing and sales facilities worldwide to support thousands of customers.

TACC (An Illinois Tool Works Division)

56 Air Station Industrial Park
Rockland, MA 02370
781-878-7015
www.taccint.com

Company Contact: Jim James, general manager

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

TACC, an Illinois Tool Works Division, has manufactured quality commercial adhesives and sealants since 1969. Manufacturing facilities located in Massachusetts, New York and Georgia produce solvent- and water-based products under the trade names TACC, Miracle®, KingCo, Sta-Put and Conbond. Acquired by Illinois Tool Works in 1998, TACC maintains its primary focus on

the research and development of innovative, environmentally safe and applicator-friendly products that exceed industry standards for performance and quality.

tesa tape, inc.

5825 Carnegie Blvd.
Charlotte, NC 28209
704-554-0707

www.tesatape.com

Company Contact: Annette Carroll

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$665 million

For over a century, tesa has pioneered the development of pressure sensitive adhesive tape technologies. Today, this worldwide enterprise services customers in over 50 countries around the globe in the paper, printing, electronics and automotive markets. In North America, tesa markets three diverse product lines: double-sided fastening tapes, masking tapes and associated products, and packaging tapes. These are in addition to the company's duct and specialty tape products.

TruSeal Technologies, Inc.

23150 Commerce Park
Beachwood, OH 44122
216-910-1500
www.truseal.com

Company Contact: August J. Coppola, president and CEO

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$80 million

TruSeal Technologies is a worldwide, market-share-leading manufacturer of sealant systems; flexible, warm edge spacers; and components for the fabrication of high-performance and long-lasting insulating glass for windows, doors, refrigeration and transportation applications. TruSeal also manufactures specialty products for solar-panel fabrication, general construction, and specialty and private-label customers. TruSeal trade names include Swiggle® Seal, DuraSeal™ and InsulEdge™. (Privately held)

Tyco Adhesives (a division of the Plastics and Adhesives Group of Tyco Int'l. Inc.)

1400 Providence Highway
Norwood, MA 02062
800-343-7875; 800-248-7659; 781-440-6200
www.tycoadhesives.com

Company Contact: Elizabeth A. Curran, marketing manager, Specialty Products

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$450+ million

U.S. Subsidiaries or Recent Acquisitions: Patco, Power Lone Star

Tyco Adhesives is a leading manufacturer of pressure sensitive adhesives, emulsions, aqueous and hot melt products, including rubber-, acrylic- and silicone-based systems, under the Polyken, Betham, Manuli, Patco, National and Nashua brand names. The Industrial Div. offers tapes used in the aerospace and HVAC industries, as well as duct, sealing, packaging and electrical tapes for consumer applications. The Corrosion Protection Group offers tape products for the protection of oil, gas and water pipelines. The Specialty Div. offers standard and custom-developed products, as well as toll coating for applications in the medical, automotive, electronic and industrial industries, with the Custom Design Resource Group dedicated to supporting customized development through transition. The Specialty Div. offers expertise in products for bonding diverse and difficult-to-bond substrates including foams, films, foils, nonwovens and wovens, and can design products to specification.

Uniseal, Inc. (part of Koch Enterprises, LLC)

1014 Uhlhorn
Evansville, IN 47710
812-425-1361
www.uniseal.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$30 million

Subsidiaries or Recent Acquisitions: Uniseal Telecom Systems, Pipeconx

Uniseal's global sales presence is a sign of commitment to become the automotive industry's single-source supplier of adhesives, sealants, foam products, thermoplastics and structural reinforcements. Through creative formulations, Uniseal is able to provide materials for the automotive process. With state-of-the-art manufacturing processes, technologically advanced R&D labs, and a diverse product set, Uniseal is uniquely positioned as a full-product and service supplier.

Vantico Inc.

5121 San Fernando Rd. West
Los Angeles, CA 90039
818-247-6210
www.adhesives.vantico.com

Company Contact: Bob Kruger, marketing manager

Estimated 2001 Worldwide Adhesives and Sealants Sales: >\$50 million

U.S. Subsidiaries or Recent Acquisitions: Vantico A&T US Inc.

Vantico is a world leader in high-performance Araldite® epoxy, polyurethane and methacrylate structural adhesives, pastes and laminating systems for bonding and assembly of general industrial, automotive and aerospace components. Supporting Vantico's role in the international marketplace are 2,800 employees and manufacturing sites in 18 countries around the world. (Privately held)

Wacker Silicones Corp. (a subsidiary of Wacker Chemie GmbH)

3310 Sutton Road
Adrian, MI 49221
517-264-8500

www.wackersilicones.com

Company Contact: Axel Schmidt, business line manager, sealants

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$900 million

Wacker is one of the world's leading manufacturers of silicones. With more than 18,000 employees, Wacker generates more than \$3 billion USD in sales. (Privately held)

Worthen Industries, Inc.

3 E. Spit Brook Rd.
Nashua, NH 03060
603-888-5443

www.worthenind.com

Company Contact: Robert F. Worthen, president

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$50 million

This company is a manufacturer of high-performance adhesives and coatings for the footwear, film-laminating, automotive, packaging, staple, flexible-duct, foam-fabricating, coated paper and specialty industrial markets.

OTHER BIG PLAYERS

The following companies have sales figures that place them outside the Top 50, but are significant manufacturers in the industry.

Adhesive Applications, Inc.

218 Race St.
Holyoke, MA 01040
413-532-3288

www.dipoly.com

Company Contact: Shannon Laplante

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$10 million

Dielectric Polymers, Inc., and Stick-It Products, Inc., have merged. Both companies are now a division of the holding company, Adhesive Applications, Inc. Dielectric Polymers manufactures transfer adhesives and film tapes for laminating and splicing, plating, automotive, aerospace, and powder coating applications. Stick-It Products produces adhesive foam tapes for automotive, electronic, plastic molder/extruder, appliance, furniture and the door/window markets. The companies have more than 50 years of combined experience serving the industrial marketplace worldwide.

Advanced Adhesive Systems, Inc.

681 North Mountain Rd.
Newington, CT 06111
860-953-4100

Company Contact: Richard Urso, vice president, marketing

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$5 million

This company is a custom formulator and manufacturer of adhesives, sealants and coatings for original equipment manufacturers, aftermarket and consumer companies. (Privately held)

Basic Adhesives Inc.

25 Knickerbocker Ave.
Brooklyn, NY 11237
800-394-9310

www.basicadhesives.com

Company Contact: Myrna Block, executive vice president

**Estimated 2001 Worldwide Adhesives and Sealants Sales: \$19 million

Subsidiaries or Recent Acquisitions: Elektromek

Basic Adhesives manufactures water- and solvent-based adhesives and coatings for the packaging, label, tape, protective paper and film, fabric, laminating, fugitive, graphic arts, and leather industries. The product line includes pressure sensitive, cohesive, laminating, fugitive, heat-activated and remoistenable adhesives, as well as non-fray and fabric coatings. The company custom-formulates adhesives to meet specific requirements. (Privately held)

CASS Polymers, Inc.

12005 N. Virginia
Oklahoma City, OK 73120
405-755-8448

www.casspolymers.com

www.cassholdings.com

Company Contact: Doug Frans

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$14 million

Subsidiaries or Recent Acquisitions: ADTECH Plastic Systems Corp.; Milamar Coatings and Adhesives, LLC; Tool Chemical Co.

CASS Polymer's subsidiaries, ADTECH Plastic Systems (ISO 9001-certified), Milamar Coatings and Adhesives (MIL-SPEC-certified), and Tool Chemical Co., produce innovative, specialty adhesives including unique waterborne and VOC-compliant conductive and dielectric epoxies. These specialty items, along with more conventional epoxy and urethane adhesives, coatings and specialty composites products, are directed to consumer and industrial markets. (Privately held)

Clifton Adhesive, Inc.

48 Burgess Place
Wayne, NJ 07470
973-694-0845

www.cliftonadhesive.com

Company Contact: Victoria Corbo

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$7 million

Clifton Adhesive Inc. is a manufacturer of industrial adhesives and coatings, specializing in custom formulating. The company also does toll manufacturing. (Privately held)

DYMAX Corp.

51 Greenwoods Rd.
Torrington, CT 06790
860-482-1010

www.dymax.com

Company Contact: Clai Bachmann

Estimated 2001 Worldwide Adhesives & Sealants Sales: \$23 million

DYMAX manufactures fast, bond-on-demand structural and UV-curable adhesives, coatings and adhesive-curing equipment. This technology-based company specializes in the formulation, manufacture and service of frequently customized, solvent-free, worker and environmentally friendly adhesives and curing equipment designed to increase productivity. Markets include the medical-disposable, industrial, optical, fiber-optic, aerospace and electronics industries. ISO-9001 certified. (Privately held)

Evans Adhesive Corp.

925 Old Henderson Rd.
Columbus, OH 43220
614-451-2665

www.evansadhesive.com

Company Contact: Rusty Thompson

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Founded in 1900, Evans Adhesive Corp. manufactures a wide range of industrial adhesives — all environmentally friendly. The company has three plants in Columbus, Ohio; Sandersville, Ga.; and Rancho Cucamonga, Calif. (Privately held)

Fielco Industries Inc.

1957 Pioneer Rd.
Huntingdon Valley, PA 19006
800-825-7156

www.fielco.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Since 1951, this company has been a leading manufacturer of polymer adhesives, sealants and coatings. The company's products are used in a wide range of applications, from electronic encapsulants to highly specialized epoxy products. Products are custom-formulated to specific industrial applications, based on particular manufacturing requirements.

Industrial Adhesives, Inc.

4244 W. 6th Ave.
Eugene, OR 97402
541-683-6677

www.hot-melt.com

Company Contact: Gilles Cyr

**Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Subsidiaries or Recent Acquisitions: Soluthink LLC

Industrial Adhesives is a technological leader and the largest manufacturer of hot melt products

on the North American West Coast. The company also manufactures a complete line of hot melt pre-coated strings and tapes known as PLYTAPE™, PACKSTRING™ and PACKTAPE™, as well as specialized application equipment. Products are sold worldwide. (Privately held)

ITW American Safety Technologies (part of Illinois Tool Works)

565 Eagle Rock Ave.
Roseland, NJ 07068
800-631-7841

www.insulcast.com; www.astantislip.com

Company Contact: Steve Feldman

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$18 million

Subsidiaries or Recent Acquisitions: Insulcast Division

This company is a manufacturer of specialty-engineered epoxy and silicone adhesives and coatings. AST specializes in epoxy-based anti-slip safety products, while the Insulcast Division specializes in electronic encapsulants and adhesives.

Le Page's, Inc.

41 Lesmill Rd.
North York, Ontario M3B 2T3 Canada
416-751-4343
www.lepages.com

Company Contact: Joe Nunes

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

LePage's has been a leader in the adhesives market for more than 120 years. Today, the company is the leading manufacturer of private-label tape. Items include a superglue, adhesive putties, packaging tapes and transparent tapes. (Privately held)

Master Adhesives, Inc.

996A Norcross Industrial Court
Norcross, GA 30071-2694
770-447-5025

www.masteradhesives.com

Company Contact: Heather Brown

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$5 million

Master Adhesives first gained its reputation for quality products and customer service as a manufacturer of water-based adhesives. In time, other product lines have been added, including hot melt adhesives, coatings, and cleaning and purging products. The company also custom-manufactures products for its customers based on their specific and unique needs. (Privately held)

NuSil Technology

1050 Cindy Lane
Carpenteria, CA 93013
805-684-8780
www.nusil.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$25 million

NuSil Technology is the world's leading formulator of silicone compounds for aerospace, healthcare, electronics and commercial products requiring precise, predictable, cost-effective materials performance. ISO-9001-certified since 1994, NuSil operates state-of-the-art laboratories and processing facilities in North America and Europe, and provides on-site, in-person application-engineering support worldwide. (Privately held)

OMNOVA Solutions Inc.

1476 JA Cochran Bypass
Chester, SC 29706
803-377-2331

www.OMNOVA.com

Company Contact: Silvano Ferrazzo, marketing manager, adhesives and construction; Kim Deacon, marketing, release coatings and saturants

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$25-30 million

OMNOVA Solutions is a technology-based global company and major innovator of emulsion polymers, specialty chemicals, and decorative and functional surfaces. OMNOVA's Performance Chemicals Division is a leading supplier of emulsion polymers and specialty chemicals used as binders, adhesives, saturants, release and functional coatings, and additives that provide products with significant performance advantages.

Polymeric Systems, Inc.

723 Wheatland St.
Phoenixville, PA 19460
610-935-1180
www.polymericsystems.com

Company Contact: Jack Kane, sales manager

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$10 million

Polymeric Systems, Inc., develops and manufactures epoxy and elastomeric (silicone, polyurethane, polysulfide, modified-silane polymer) adhesives/sealants for worldwide industrial, construction, transportation and DIY markets. The company specializes in product innovation and in providing research, development and manufacturing services to other companies within the industry. (Privately held)

Smooth-On, Inc.

2000 St. John St.
Easton, PA 18042
800-762-0744

www.smooth-on.com

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Smooth-On, Inc., has manufactured superior epoxy adhesives for over 105 years. Metalset A4 is a powerful adhesive used by military units worldwide and by airline and auto manufacturers. MT-13 is a premium adhesive highly effective in water-resistant applications. EA-40 is a transparent adhesive used extensively in the bow-making industry. Super Instant epoxy adhesive provides a rapid bond. PC-3 is the industry standard for cementing laboratory tabletops. Ure-Bond is used in a variety of applications and provides a flexible bond. (Privately held)

W.F. Taylor Co., Inc.

11545 Pacific Ave.
Fontana, CA 92337
909-360-6677
www.wftaylor.com

Company Contact: Jack Raidy Jr.

Estimated 2001 Worldwide Adhesives and Sealants Sales: Not available for publication

Taylor adhesives are made for a full spectrum of flooring products and backings through ongoing relationships with the flooring industry's leading manufacturers, contractors and installers. W.F. Taylor has developed environmentally responsible adhesives to achieve a perfect bond for every application. Based in Fontana, Calif., and with an additional state-of-the-art manufacturing facility in Dalton, Ga., W.F. Taylor has provided adhesives to the flooring industry for over 25 years. (Privately held)

Wilsonart International Adhesives (part of Illinois Tool Works)

10601 NW Dodgen Loop
Temple, TX 76503
254-207-6701
www.wilsonart.com

Company Contact: Dave Berry

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$21 million

This company is a manufacturer and supplier of quality solvent and waterborne contact adhesives and a comprehensive selection of PVA wood-bonding, hot- and cold-press, and post-forming adhesives for the decorative laminate industry.

Wisdom Adhesives

10265-75 Pacific Ave.
Franklin Park, IL 60131
847-678-7750

www.wisdomadhesives.com

Company Contact: Jeff Wisdom

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$9 million

Wisdom Adhesives formulates custom solutions for the packaging and graphic arts industries, as well as many other industries. Wisdom's adhesive line includes water-based resins, protein adhesives, hot melts, dextrin, aerosols, cyanoacrylates, anaerobics, epoxies and various other adhesives. (Privately held)

YH America, Inc. (part of The Yokohama Rubber Co., Ltd., Japan)

105 Kuhlman Dr.
Versailles, KY 40383
859-879-2834
e-mail: aharrington@yhamerica.com

Company Contact: Al Harrington

Estimated 2001 Worldwide Adhesives and Sealants Sales: \$10 million

YH America, Inc., is a manufacturer of urethane windshield primers and sealants, as well as a complete line of thermoplastic hot melt adhesives for the automotive lighting industry. The glass-bonding products are sold directly to automotive OEM plants and to Tier-One glass-enhancement suppliers.