

# Industrial Adhesives: Products and Technologies - A Global Market Overview

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# **Abstracts**

Principal elements for the high rate of growth in the 100% reactive adhesive category include a recovery in the manufacturing sector and a trend towards production substitution in favor of higher value materials. The robust gains indicated for hot melt adhesives are characteristic of their responsiveness to rapid processing speeds, in addition to lack of volatile organic compound (VOC) emissions, which is of specific benefit in the packaging sector. While alternative formulations have eaten away into the growth prospects of solvent-based adhesives over the past few years, the prospect of an above-average growth for this adhesive category is very much on the cards. This can be attributed primarily to a once-again burgeoning construction sector and efforts undertaken by suppliers in cutting down VOC emissions. As was the case in the past, water-based adhesives are slated to maintain sustained growth over the analysis period, the primary reason for which is the absence of volatile organic compound (VOC) emissions in their utilization.

Industrial Adhesives technologies discussed in this study comprises Water-Based, Solvent-Based, Hot Melts and 100% Reactive. The product segments analyzed in include Acrylics, Water-Based PVAc & VAE, Polyurethane, EVA & Polyethylene Hot-Melts, SBC Hot-Melts, Epoxy, Polychloroprene and Others. The major product segments further classified in to sub-types as Acrylics – Emulsion-Based Acrylics, Solvent-Based Acrylics and Other Acrylics; Polyurethane - Solvent-Based, 100% Reactive, Hot-Melt and Water-Based.

The global markets for the above mentioned product types and technologies for industrial adhesives are analyzed in both value in US\$ and the volumes in million pounds (lbs). The report covers the global market for industrial applications only and excludes any other usages of adhesives. Global consumption for industrial adhesives is



estimated at 21.3 billion lbs valued at US\$26.7 billion and projected to reach about 30 billion lbs equated to US\$40 billion growing by compounded annual growth rate (CAGR) of 5.1% and 6% respectively for volume and value for the period 2013-2020.

The report reviews, analyses and projects the industrial adhesives market for global and the regional markets including North America, Europe, Asia-Pacific, South America and Rest of World. The regional markets further analyzed for 16 independent countries across North America – The United States, Canada and Mexico; Europe – Germany, France, the United Kingdom, Italy, Spain and Russia; Asia-Pacific –China, Japan, South Korea, India and Taiwan; and South America – Brazil and Argentina.

This 740 pages, global market report includes 669 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 39 key global players and 92 major players across North America – 36; Europe – 17; and Asia-Pacific – 39. The research also provides the listing of the companies engaged in manufacturing and supply of industrial adhesives. The global list of companies covers addresses, contact numbers and the website addresses of 646 companies.



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3M COMPANY

ADCO Global, Inc.

Adhesive Applications Inc.

Adhesive Films Inc.

Adhesives Research, Inc.

Akzo Nobel N.V.

Ashland Inc.

**Avery Dennison Corporation** 

**BASF SE** 

Bayer Materialscience AG

Beardow & Adams (Adhesives) Limited

Bemis Company, Inc.

**Bostik** 

Carlisle Companies Incorporated

Chemence Limited

Collano Adhesives AG

Cytec Industries Inc.

**Dow Corning Corporation** 

E. I. Du Pont De Nemours and Company

Forbo Holding Ltd

Franklin International, Inc.

Gardner-Gibson, Inc.



**HB** Fuller Company

Henkel AG & Co KGaA

Hernon Manufacturing Inc.

Hitachi Chemical Co Ltd

**Huntsman International LLC** 

Illinois Tool Works Inc.

Klebchemie M. G. Becker GmbH & Co. KG

**Lord Corporation** 

MAPEI SpA

Mitsubishi Chemical Corporation

PPG Industries Inc.

Sharp Chemical Industry Co Ltd

The Dow Chemical Company

The Nippon Synthetic Chemical Industry Co Ltd

The Yokohama Rubber Co Ltd

Total SA

Toyo Polymer Co Ltd

#### 4. KEY BUSINESS TRENDS

Henkel Unveils Next-Generation Loctite® Liquid Optically Clear Adhesives
Adept Industrial Solutions' 3M Hi-Strength 94ET Spray Adhesives
Innovation of Henkel's Technomelt Supra 100 Cool Low Temperature Hotmelt
Adhesive

Application of H.B. Fuller's Swift®tak Adhesives for Safe and Solid Adhesion

Wisdom Adhesives Worldwide Collaborates with DENLAKS

Sika Takes Over Everbuild Building Products Ltd

Jowat Showcases Innovative Adhesive Systems

H.B. Fuller Adds Novel Nonwoven Adhesives to its Full-Care™ Portfolio

Unveiling of Ashland Performance Materials' Arocure™ UV-curable Hotmelt PSAs

Henkel's "Food Safe Packaging" Initiative Started

H.B. Fuller Signs Purchase Agreement with Plexbond Quimica

Bayer Material Science Reformulates Adhesives Range

Dynea Establishes a New Company in Europe

**AEC Polymers Patents New Technology** 

Henkel Developed Loctite Ablestik ICP 4000 series of Silicon-based ECAs

Berry Plastics to Introduce Two New Tapes

Henkel Innovates New Adhesive

Evonik Expands Product Line by Setting Up a New Plant



**Evonik Showcases New Products** 

H.B. Fuller Launches Modern Water-Based Laminating Adhesives

Launch of H.B. Fuller's Flextra Fast™ Adhesives for Food Packaging Applications

Henkel Revamps its Brand Structure

H B Fuller Manufactures Adhesives at Pune

Ashland Launches Marine Adhesive

Henkel, DaniMer Pair Up for Bio-based Hotmelt Adhesives Development

Wisdom Adhesives is Renamed as Wisdom Adhesives Worldwide

Royal Holdings Takes Over Adhesives Packaging Specialties Inc

DELO, Ticona Pair Up for Novel Adhesive System Development

Royal Packaging Specialities Acquired Adhesives Packaging Specialities Inc.

Berry Plastics Launches Polyken

Unveiling of VORASIL™ 602 and 604 Silane Modified Polymers by Dow Polyurethanes

Howdens Develop Long-Lasting Kitchens Using Henkel's Hotmelt Adhesives

Avery Dennison Unveils a New Pressure-Sensitive Labeling

Novel High Performance Adhesives and Sealants from Henkel for Automotive Repairs

Clifton Adhesives Acquired by Royal Adhesives & Sealants

Cytec Industries' Pressure Sensitive Adhesive Products Acquired by Henkel

Ashland Performance Materials Launches Aroset™ AGX-L PSA for Medical Tapes

Royal Adhesives & Sealants to Take over Clifton Adhesives Assets

Enhanced Loctite Instant Adhesives with Elevated Service Temperature of up to 120°C

Royal Adhesives & Sealants Plans to Acquire Extreme Adhesives

H.B. Fuller Acquires Forbo's Global Industrial Adhesives Operations

Commercial Launch of Evo-Stik's Novel Two-Part Epoxy Resins

Royal Adhesives & Sealants Takes Over the Assets of Craig Adhesives & Coatings

Dow Automotive Systems' Novel and Versatile Adhesive Portfolio

LORD Corporation Launches LORD®

LORD Corp's New Range of Primers and Adhesives Developed

New Chemlok® Adhesives Developed by LORD Corp

Wisdom Adhesives Inaugurates Mumbai Office

Evonik Plans to Construct HTPB Production Unit in Germany

Ashland Inc. Provides Aroset™ PSA Product Line for Medical Applications in Europe

Wisdom Adhesives Launches GreenMelt™

Launch of Novel Technique to Assess Cohesive Strength in PSAs

Ashland Inc. Collaborate with Flint Group to Distribute Coatings and Adhesives

Construction of Henkel's Adhesives Unit Started in China

Royal Adhesives & Sealants LLC Taken Over by Arsenal Capital Partners

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1.4 Major Market Players

3M COMPANY (UNITED STATES)

ADCO Global, Inc. (United States)

Adhesive Applications Inc. (United States)

Adhesive Films Inc. (United States)

Adhesives Research, Inc. (United States)

Ashland Inc. (United States)

Avery Dennison Corporation (United States)

Bemis Company, Inc. (United States)

Berry Plastics Corporation (United States)

Carlisle Companies Incorporated (United States)

Creative Materials Incorporated (United States)

Cytec Industries Inc. (United States)

DAP Products Inc. (United States)

DOW Corning Corporation (United States)

Dymax Corporation (United States)

E. I. Du Pont De Nemours And Company (United States)

Evans Adhesive Corp Ltd (United States)

Franklin International, Inc. (United States)

Gardner-Gibson, Inc. (United States)

HB Fuller Company (United States)

Hernon Manufacturing Inc. (United States)

Huntsman International LLC (United States)

Illinois Tool Works Inc. (United States)

ITW Devcon (United States)

JOWAT Corp. (United States)

Lord Corporation (United States)

Mactac (United States)

Momentive Performance Materials Inc. (United States)

Omnova Solutions Inc. (United States)

PPG Industries Inc. (United States)

Royal Adhesives & Sealants, LLC (United States)

RPM International Inc. (United States)



The Dow Chemical Company (United States)

Uniseal Inc. (United States)

Wisdom Adhesives (United States)

YH America Inc. (United States)

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2.3.1.4 100% Reactive

2.4 Major Market Players

AKZO Nobel N.V. (The Netherlands)

BASF SE (Germany)

Bayer Materialscience AG (Germany)

Beardow & Adams (Adhesives) Limited (United Kingdom)

**BOSTIK** (France)

Chemence Limited (United Kingdom)

Collano Adhesives AG (Switzerland)

EMS-Chemie Holding AG (Switzerland)

Forbo Holding Ltd (Switzerland)

Henkel AG & Co KGaA (Germany)

Huntsman Advanced Materials (Switzerland) GmbH (Switzerland)

Klebchemie M. G. Becker Gmbh & Co. KG (Germany)

Mapei SpA (Italy)

Scapa Group Plc (United Kingdom)

Sika AG (Switzerland)

Total SA (France)

Wacker Chemie AG (Germany)

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AICA Kogyo Co Ltd (Japan)

Beijing Comens New Material Co Ltd (China)

Benson Polymers Limited (India)

Cemedine Co Ltd (Japan)

Chemline India Limited (India)

Chengdu Guibao Science & Technology Co Ltd (China)

Denki Kagaku Kogyo K.K. (Japan)

DIC Corporation (Japan)

Fast Bonds Pvt Ltd (India)

Hindustan Adhesives Limited (India)

Hitachi Chemical Co Ltd (Japan)

Hubei Huitian Adhesive Enterprise Co Ltd (China)

Jesons Industries Limited (India)

Koatsu Gas Kogyo Co Ltd (Japan)

Konishi Co Ltd (Japan)

Mitsubishi Chemical Corporation (Japan)

Moresco Corporation (Japan)

Nichiei Kako Co Ltd (Japan)

Nissin Chemical Industry Co Ltd (Japan)

Nitta Gelatin Inc (Japan)

Okong Corporation (South Korea)

Oshika Corporation (Japan)

Pidilite Industries Limited (India)

Polygel Industries Private Limited (India)

Qingdao Winlong Chemical Industrial Co Ltd (China)

Shanghai Kangda New Materials Co Ltd (China)

Sharp Chemical Industry Co Ltd (Japan)

Showa Denko K.K. (Japan)

Soken Chemical & Engineering Co Ltd (Japan)

Super Bond Adhesives (P) Ltd (India)

TAOKA Chemical Co Ltd (Japan)

The Nippon Synthetic Chemical Industry Co Ltd (Japan)

The Yokohama Rubber Co Ltd (Japan)

Threebond Co Ltd (Japan)

Toagosei Co Ltd (Japan)

Tonsan Adhesive, Inc (China)

Toyo Ink SC Holdings Co Ltd (Japan)



Toyo Polymer Co Ltd (Japan)

Yasuhara Chemical Co Ltd (Japan)

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## **About**

Several regional groups have joined hands and are leading a crusade for more environmentally friendly or "green" buildings, which implies that the requirement for more eco-friendly adhesives would go up. The Adhesives and Sealants Council has been collaborating with these groups with the aim of reducing or eliminating the use of volatile organic compounds (VOCs) in adhesive products, which would ensue in cutting down the emissions and odors that are responsible for several respiratory ailments and poor building air quality.

The concept of green buildings reflects a pronounced shift from conventional building practices typified by short-term economic benefits to "best practices" that underscore enhancement in construction quality, energy efficiency, indoor air quality, water and natural resource conservation and meticulous planning and design. This model has garnered widespread acceptance globally, with more and more countries and building organizations aspiring at establishing standards and incentives for promoting sustainable building practices.

To take a case in point, leading German adhesive producers have set up the Association for the Control of Emissions in Products for Flooring Installation (GEV). This body has been instrumental in developing a product classification system called EMICODE® that offers simplicity and reliability in categorizing emissions of such products. The EMICODE® EC1 label, for instance, ensures that the flooring installation product is free of solvents with extremely low emissions. Flooring adhesives have also been associated with problems of odor other than VOC emissions.

The reason behind this has been reducing or substituting low-boiling solvents in "low VOC" adhesives with purportedly "high-boiling" or plasticizer substances, which are utilized as media for transporting the tackifier resin into the polymer, with the odoriferous effect becoming more pronounced with the passage of time. In spite of having high boiling points, the plasticizers are released quite quickly into the ambient atmosphere, leading to foul odor and environmental concerns In order to overcome these problems, a variety of adhesive systems have been developed that offer effective solutions for the same.

A high boiling point liquid resin enables in providing a tackifying effect if used in conjunction with gum rosin, which results in improving bond development, peel strength and dry tack, as well as significantly reducing odor. Yet another novel adhesive



formulation comprises a crosslinking amide-ester-acrylate system, which results in forming an interpenetrating network adhesive that demonstrates rapid wet-lay features of quick initial tack, strong elastomeric bond, waterproofing and reduced VOC emissions. This adhesive is touted as possessing 50% greater shear strength after 24 hours of application, when compared to urethane adhesives.



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