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Spray Adhesives Market Report by Type (Solvent-based, Water-based, Hot Melt), Resin Type (Epoxy, Polyurethane, Synthetic Rubber, Vinyl Acetate Ethylene), End Use Industry (Building and Construction, Packaging, Furniture, Transportation, Textile, and Others), and Region 2024-2032

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Abstracts

The global spray adhesives market size reached US$ 3.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 5.1 Billion by 2032, exhibiting a growth rate (CAGR) of 3.8% during 2024-2032. The market is primarily driven by the significant expansion in the automotive sector, the widespread adoption of spray adhesives in packaging industries, and the increasing demand across construction, and infrastructure projects, due to its numerous advantages like ease of application, efficiency in bonding various materials, and environmental benefits.

Spray Adhesives Market Analysis:

Major Market Drivers: The increasing product demand from construction and automotive industries due to their ease of use and efficiency is contributing to market growth. Moreover, the growth in do-it-yourself (DIY) activities and home improvement projects globally, and significant advancements in technology leading to more efficient and environmentally friendly formulations are propelling the market growth.

Key Market Trends: The shift toward low volatile organic compound (VOC) and eco-friendly formulations in response to stringent regulations, and the increasing popularity of aerosol adhesives in arts and crafts, driven by consumer

preference for convenience are contributing to the market growth.

Geographical Trends: Asia Pacific shows significant growth potential with rapid industrialization and infrastructure development. Moreover, North America and Europe lead the market due to robust industrial sectors and high consumer awareness regarding environmental concerns.

Competitive Landscape: Some of the major market players in the spray adhesives industry include 3M Company, AFT Industries, Ashland, BASF SE, Bostik SA (Arkema S.A.), Gemini Adhesives Ltd., H.B. Fuller Company, Henkel AG & Co. KGaA, Phillips MFG, Sika AG, Spray-Lock Inc, The Kroger Co., among many others.

Challenges and Opportunities: Regulatory challenges regarding VOC emissions pose compliance hurdles for manufacturers. According to the spray adhesives market overview, opportunities lie in developing bio-based alternatives and expanding applications in niche markets such as aerospace and healthcare.

Spray Adhesives Market Trends:

Increase in Construction and Infrastructure Projects

The government constantly emphasizes how infrastructure and buildings are expanding at a rapid rate, which greatly increases the need for spray adhesives. For instance, the Census Bureau stated in April 2024 that the total amount spent on building reached an adjusted annual rate of $2,099.0 Billion, which is a significant increase of 10.0% from April 2023 when it stood at $1,907.8 Billion. In addition, the spending on building from January to April 2024 came to $635.5 Billion, a significant increase of 10.9% above the $573.0 Billion spent at the same time in 2023. These numbers demonstrate an extensive expansion of construction activity, supported by higher investments in the industrial, commercial, and residential sectors, which is escalating the spray adhesives market demand for uses including panel bonding, flooring, and insulation. Global urbanization is picking up speed, especially in emerging nations where the need for new infrastructure drives the use of cutting-edge adhesive technology. Furthermore, the increasing amount of glue used, this growth in construction activities highlights the requirement for adhesives that exceed strict building norms and regulations by providing greater bonding strength, durability, and environmental sustainability across the globe.

Significant Expansion of Automotive Industry

Spray adhesives are essential for the assembly of interior parts such as headliners, trim gluing, and insulation in the automobile industry. Hence, the increasing need for creative adhesive solutions that provide excellent strength, flexibility, and compatibility with novel materials which is further growing by the automobile industry's transition toward electric cars and autonomous driving technology. Statistics from the International Energy Agency (IEA) reported sales of electric vehicles (EVs) exceeded 10 Million worldwide in 2022. In 2021, just around 9% of new cars sold globally were electric vehicles 2021, the percentage increased to 14% in 2022. Global sales of electric cars were controlled by three main markets, with China holding the largest part of the market at almost 60%. China's sales target for new electric vehicles by 2025 has already been exceeded. Moreover, the second-largest market was Europe, where sales of electric vehicles increased by more than 15% in 2022 and accounted for more than one-fifth of all auto sales. Furthermore, the United States, the third-largest market, saw a 55% increase in electric car sales in 2022, making up 8% of total new car sales. Spray adhesives remain crucial for streamlining production procedures and raising overall vehicle quality and safety requirements as manufacturers pursue sustainability and economy.

Packaging Industry Expansion

The spray adhesives market is significantly driven by the packaging sector growth due to the rising need for sustainable and sanitary packaging solutions worldwide. Additionally, adherence to food safety standards is mandated by government laws, which include strict recommendations from agencies such as the Food and Drug Administration (FDA). Under specific conditions, adhesives can also be safely incorporated into materials used for food packaging, transportation, or storage. For instance, the adhesive is employed for isolating the food by a functional barrier. In the case of dry foods, the amount of adhesive that encounters the packed food must adhere to good manufacturing standards. Furthermore, if acceptable production processes are followed, the adhesive that meets packed fatty and watery foods should only be present in trace amounts at seams and edge exposures between packing layers. Along with this, under normal usage circumstances, the laminates or packing seams must be firmly fused without separating visibly. In addition, the adhesive container's label must declare food-packaging adhesive to guarantee the safe usage of adhesives. Hence, the adoption of adhesive technologies that guarantee product integrity, dependability, and conformity to safety and health regulations is encouraged by the current regulatory environment across the globe.

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Spray Adhesives Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on type, resin type, and end use industry.

Breakup by Type:

- Solvent-based
- Water-based
- Hot Melt

Water-based accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes solvent-based, water-based, and hot melt. According to the report, water-based represented the largest segment.

Water-based adhesives are leading the market due to their favorable effects on the environment and adherence to strict VOC restrictions, which make them very appealing to industries that prioritize sustainability. Water-based spray adhesives are also widely used in several sectors, including furniture, automotive, and packaging, due to their excellent adhesion qualities and low environmental impact. These adhesives have fewer health hazards and are less flammable, which makes them especially prized for their safety characteristics as compared to solvent-based alternatives. Besides this, the growing popularity of water-based adhesives, due to the strict regulations globally and increased awareness of environmental problems across the globe is further increasing the spray adhesives market value. For instance, on 25 April 2024, Henkel unveiled Aquence PS 3017 RE, a cutting-edge wash-off adhesive for PET packaging that improves recyclability, in D?sseldorf, Germany. This adhesive solution has been granted a cyclos-HTP Institute (CHI) certification for recyclability. Water-based acrylic pressure-sensitive adhesive Aquence PS 3017 RE was developed especially for olefinic film labels on wash-off PET bottles. It was designed with sustainability in mind, it uses less energy making it simple to remove labels before recycling, even at lower temperatures.

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Breakup by Resin Type:

- Epoxy
- Polyurethane
- Synthetic Rubber
- Vinyl Acetate Ethylene

A detailed breakup and analysis of the market based on the resin type have also been provided in the report. This includes epoxy, polyurethane, synthetic rubber, and vinyl acetate-ethylene.

Epoxy spray adhesives offer excellent bonding strength and endurance which make them perfect for numerous applications in the electronics, automotive, and aerospace sectors. These adhesives have a well-known reputation for having exceptional heat and chemical resistance, which guarantees dependable performance under challenging circumstances. Additionally, epoxy adhesives are especially useful due to their demanding extreme strength and accuracy, such as gluing glass, composite materials, and metal components. Furthermore, technological developments that enhance usability and cure periods also help the epoxy spray adhesive business across the globe.

Polyurethane spray adhesives are highly valued for their flexibility and versatility across a broad range of materials, including wood, plastics, and textiles. These adhesives are especially popular in the construction and furniture industries, where they are used for panel lamination and flooring applications due to their robust moisture resistance and strong bonding capabilities. Additionally, polyurethane adhesives adapt well to thermal expansion and contraction, making them suitable for outdoor and weather-exposed applications. Besides this, the ongoing development of low-VOC polyurethane adhesives aligns with the increasing environmental regulations, which is further creating a positive spray adhesives market outlook. Furthermore, their ability to bond dissimilar materials creates opportunities for innovation in multi-material applications, ensuring continued growth in diverse sectors.

Synthetic rubber spray adhesives are a staple in commercial and industrial applications owing to their quick-setting properties and effective bonding in non-structural applications. Additionally, commonly used in the automotive and packaging industries, synthetic rubber spray adhesives offer good flexibility and are capable of bonding a wide array of materials including paper, leather, fabric, and metal. Moreover, synthetic rubber adhesives are prized for their ease of use and rapid strength development, facilitating speedy assembly processes and production cycles. They generally have lower temperature and chemical resistance compared to other adhesives, positioning them as more suitable for general-purpose applications rather than high-stress or extreme environments. Furthermore, the market potential for synthetic rubber adhesives is enhanced by ongoing product innovations aimed at improving performance and environmental compliance, thus generating significant spray adhesives market revenue.

Vinyl acetate-ethylene (VAE) spray adhesives are gaining traction due to their low environmental impact and excellent adhesion properties on porous materials such as paper, board, and textiles. They are predominantly employed in the packaging and bookbinding industries, where safety, ease of use, and cost-effectiveness are paramount. Additionally, VAE adhesives are water-based, which reduces the exposure to harmful solvents but also complies with stringent environmental regulations. Moreover, their increasing popularity is driven by the shift toward sustainable and safe adhesive solutions in consumer and industrial applications. Furthermore, with the significant advancements in polymer chemistry enhancing their performance, VAE adhesives are poised to expand their market presence, offering a practical and environmentally responsible alternative to solvent-based products, thus contributing to the spray adhesives market growth.

Breakup by End Use Industry:

- Building and Construction
- Packaging
- Furniture
- Transportation
- Textile
- Others

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Building and construction represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the end use industry. This includes building and construction, packaging, furniture, transportation, textiles, and others. According to the report, building and construction represented the largest segment.

Building and construction industry dominate the market due to the widespread use of spray adhesives in various construction processes, including insulation, flooring, roofing, and panelling. Spray adhesives are prized for their quick application and strong bond strength, which are essential in fast-paced construction environments. Additionally, the versatility of spray adhesives in adhering to different materials like wood, metal, and concrete enhances their appeal in construction projects. As urbanization and infrastructure projects continue to expand, especially in emerging economies, the demand for efficient and reliable adhesives like spray adhesives in the building and construction industry is expected to grow robustly. Furthermore, key players are introducing advanced product variants to meet these needs. For instance, in March 2024, Henkel, presented adhesive solutions for furniture and building components under the theme Perfect Bonding, Embrace the New Living at the Interzum 2024 in Guangzhou, China. Interzum is a pivotal annual event regarded as a barometer in the furniture and building components industry. Henkel's focus was on showcasing adhesive innovations for edge banding, along with comprehensive solutions for flat lamination, coating, and other applications. Throughout the event, Henkel collaborated with industry partners, including furniture manufacturers and influencers, hosting forums aimed at advancing the use of high-quality adhesives and optimal edge banding techniques for superior furniture and home construction.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

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Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

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Asia Pacific leads the market, accounting for the largest spray adhesives market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest regional market for spray adhesives.

As per the spray adhesive market forecast, Asia Pacific emerges as the largest and fastest-growing segment. It is primarily driven by the rapid industrialization and expanding manufacturing sectors in countries like China, India, and Southeast Asia. Additionally, the region's strong emphasis on infrastructure development, automotive production, and packaging industries significantly contributes to the rising demand for spray adhesives. Moreover, Asia Pacific benefits from a large consumer base and increasing urbanization, which further propels the market. The region's cost-effective manufacturing capabilities attract numerous international companies, enhancing local market growth. Furthermore, with the ongoing developments and investments in technology and industrial sectors, Asia Pacific is poised to maintain its leadership in the spray adhesives market.

Competitive Landscape:

> The spray adhesives market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major spray adhesives companies include 3M Company, AFT Industries, Ashland, BASF SE, Bostik SA (Arkema S.A.), Gemini Adhesives Ltd., H.B. Fuller Company, Henkel AG & Co. KGaA, Phillips MFG, Sika AG, Spray-Lock Inc and The Kroger Co.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

> At present, key players in the spray adhesives market are strategically strengthening their market position through significant investments in research and development to innovate and enhance product offerings. These companies are also actively pursuing mergers and acquisitions to expand their geographic reach and penetrate new industry segments. Additionally, they focus on

sustainability initiatives, developing environmentally friendly products to meet stringent global regulations and shifting consumer preferences towards safer, greener alternatives. These efforts are essential for maintaining competitive advantage and responding effectively to evolving market demands. For instance, in January 2023, 3M has innovatively combined adhesive science and robotics to redefine the tape concept. It introduces a fresh product category and an advanced bonding technique, marking a significant stride in manufacturing innovation. The recent launch of the product, an automatically dispensed pressure-sensitive adhesive tape that is tacky and sticky to the touch.

Spray Adhesives Market News:

13 September 2023: H.B. Fuller Company, the largest pureplay adhesives company in the world, announced today that it has acquired the business of UK-based Sanglier Limited, one of Europe’s largest independently owned manufacturers and fillers of sprayable (aerosol and canister) industrial adhesives.

28 February 2024: Henkel announced plans to expand its capabilities and foster strategic collaboration through the establishment of a groundbreaking Inspiration Center for Adhesive Technologies. The center is designed to cultivate a collaborative environment aimed at developing cutting-edge innovations and solutions for the adhesive technologies business unit. The Henkel Latam Inspiration Center houses advanced laboratories dedicated to adhesive synthesis, formulation, and application across various industries. Additionally, construction is set to commence in Q1 2024 with a targeted completion by the end of 2025.

Key Questions Answered in This Report

1. How big is the global spray adhesives market?

2. What is the expected growth rate of the global spray adhesives market during 2024-2032?

3. What are the key factors driving the global spray adhesives market?

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4. What has been the impact of COVID-19 on the global spray adhesives market?

5. What is the breakup of the global spray adhesives market based on the type?

6. What is the breakup of the global spray adhesives market based on the end use industry?

7. What are the key regions in the global spray adhesives market?

8. Who are the key players/companies in the global spray adhesives market?

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