

Low-Toxicity Adhesives & Sealants Market Forecasts to 2032 – Global Analysis By Adhesive Type (Acrylic Adhesives, Polyvinyl Acetate (PVA) Adhesives, Polyurethane Adhesives, Epoxy Adhesives, Ethylene-Vinyl Acetate (EVA) Adhesives and Styrenic Block Copolymer (SBC) Adhesives), Sealant Type, Technology, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Low-Toxicity Adhesives & Sealants Market is accounted for \$11.44 billion in 2025 and is expected to reach \$18.38 billion by 2032 growing at a CAGR of 7.0% during the forecast period. Adhesives and sealants with low toxicity are becoming more popular across industries like construction, manufacturing, and home projects, largely due to rising health and environmental awareness. These products release very few volatile organic compounds (VOCs), helping to maintain safer indoor air quality and limit long-term exposure risks. They still provide reliable bonding and sealing capabilities while adhering to strict safety and eco-friendly regulations. Growth in this segment is supported by consumer demand for sustainable materials, corporate environmental initiatives, and regulatory frameworks favoring low-emission products. Sectors such as automotive, electronics, and furniture are increasingly shifting toward these safer alternatives.

According to the U.S. EPA and EPA-supported research, adhesives and sealants are part of the broader category of volatile chemical products (VCPs), which together account for about 38% of VOC emissions in the United States. These VOCs contribute to ground-level ozone and smog, leading to regulatory limits on VOC content in adhesives and sealants and driving the adoption of low-VOC, low-toxicity formulations.

Market Dynamics:

Driver:

Growing adoption in construction & automotive sectors

The construction and automotive industries are adopting low-toxicity adhesives and sealants due to their strong performance and compliance with environmental requirements. As sustainable and safe materials gain priority, these sectors increasingly integrate such products into green buildings and eco-friendly vehicles. Factors like urban growth, infrastructure projects, and rising automotive output further amplify demand. Certifications like LEED encourage the use of materials with minimal environmental footprint, driving adoption. Consequently, these industries are key drivers of the low-toxicity adhesives and sealants market, with sustainability and regulatory compliance influencing purchasing decisions and accelerating product utilization.

Restraint:

Higher cost compared to conventional adhesives

The production of low-toxicity adhesives and sealants involves expensive raw materials and complex manufacturing processes, resulting in higher prices than conventional products. This premium cost discourages budget-conscious buyers, especially in large industrial applications and emerging markets. Although these adhesives offer health and environmental benefits, many companies prioritize cost savings, leading traditional adhesives to retain market share. The elevated initial investment acts as a barrier, restricting broader adoption even as awareness of eco-friendly materials rises. High prices continue to slow market growth, limiting the widespread integration of low-toxicity adhesives and sealants across industries.

Opportunity:

Expansion in green construction projects

Sustainable construction trends and eco-friendly building practices present significant opportunities for low-toxicity adhesives and sealants. Projects like LEED-certified buildings and energy-efficient structures prioritize materials with low VOC emissions and environmental compliance. Architects and builders are increasingly opting for adhesives and sealants that combine safety, durability, and sustainability. Government

incentives supporting green construction further boost adoption. With rising urbanization and infrastructure development, demand for low-toxicity adhesives in environmentally conscious construction projects is set to increase, offering substantial growth prospects for manufacturers and suppliers in this sector.

Threat:

Intense competition from conventional adhesives

Low-toxicity adhesives and sealants face competition from traditional adhesives that are more affordable and widely used. Industries often prefer conventional products due to familiarity, lower cost, and proven effectiveness. This competition restricts market penetration for eco-friendly alternatives, especially in budget-conscious and emerging markets. Manufacturers must highlight environmental benefits while matching performance and price points. The dominance of conventional adhesives slows adoption rates, compelling companies to invest in research, innovation, and marketing efforts to differentiate their low-toxicity offerings and expand market share.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the low-toxicity adhesives and sealants market by disrupting supply chains, manufacturing, and distribution networks worldwide. Lockdowns, labor shortages, and halted industrial and construction activities caused temporary demand declines. Conversely, the pandemic heightened awareness of indoor air quality and the importance of low-VOC, environmentally safe products, boosting interest in healthier adhesives. As markets reopened, demand rebounded, supported by sustainability initiatives and regulatory compliance requirements. Although the pandemic created short-term obstacles, it underscored the value of low-toxicity solutions, accelerating adoption in certain sectors and demonstrating the market's resilience and potential for sustained long-term growth.

The acrylic adhesives segment is expected to be the largest during the forecast period

The acrylic adhesives segment is expected to account for the largest market share during the forecast period because of their adaptability, strong bonding performance, and environmentally friendly characteristics. They find extensive applications in industries like construction, automotive, electronics, and packaging, where durable, low-VOC, and weather-resistant solutions are required. These adhesives adhere well to diverse surfaces, cure quickly, and resist heat and chemicals, making them ideal for

manufacturers seeking both efficiency and sustainability. Their consistent performance, combined with eco-conscious features, positions acrylic adhesives as the most widely adopted segment in the low-toxicity market, reflecting their importance in driving demand and market growth across multiple sectors.

The silicone sealants segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the silicone sealants segment is predicted to witness the highest growth rate due to their exceptional durability, flexibility, and resistance to heat, moisture, and UV light. They are widely utilized in the construction, automotive, and electronics sectors, where high-performance, long-lasting, and eco-friendly sealing solutions are essential. Rising emphasis on sustainable materials and low-VOC products fuels their increasing adoption. Silicone sealants' capacity to adhere effectively to multiple surfaces while offering minimal environmental impact makes them a rapidly expanding segment, attracting both manufacturers and end-users seeking reliable, high-quality, and environmentally responsible sealing options.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to strict environmental regulations, VOC emission limits, and widespread adoption of sustainable products across multiple industries. The construction, automotive, electronics, and furniture sectors in the region increasingly use low-toxicity adhesives to meet compliance standards and support eco-friendly initiatives. Rising demand for healthier indoor spaces and green building certifications contributes to market expansion. Advanced R&D infrastructure and a strong presence of leading manufacturers facilitate innovation and the supply of high-performance, low-VOC adhesives and sealants. These factors collectively sustain North America's leading share in the global low-toxicity adhesives and sealants market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid urbanization, industrial expansion, and increasing demand in construction and automotive industries. Countries such as China, India, and Japan are adopting low-VOC standards and emphasizing environmental sustainability, encouraging the use of eco-friendly adhesives. Growth in electronics, furniture, and packaging sectors adds further momentum. Enhanced R&D capabilities, the presence

of local manufacturers, and government support for green building initiatives contribute to market development. Together, these factors make Asia-Pacific the region with the highest growth rate in the global low-toxicity adhesives and sealants market.

Key players in the market

Some of the key players in Low-Toxicity Adhesives & Sealants Market include Henkel AG & Co. KGaA, Sika AG, 3M Company, Wacker Chemie AG, Arkema S.A., Dow Inc., Huntsman Corporation, BASF SE, H.B. Fuller Company, Bostik SA, RPM International Inc., Ashland Global Holdings Inc., Lord Corporation, LINTEC Corp. and Pidilite Industries Ltd.

Key Developments:

In December 2025, Sika has agreed to acquire Finja, a leading Swedish manufacturer of a wide range of mortars and integrated solutions that enhance efficiency and sustainability in construction. The acquisition will strengthen Sika's Nordic presence and provide major cross-selling opportunities through the highly complementary product portfolios and increased presence in the distribution channel.

In August 2025, BASF and Univar Solutions have expanded their collaboration in the field of specialty chemicals. Under the new agreement, Univar Solutions, including its Canadian division, will act as the exclusive distributor for selected BASF products in the United States and Canada. These materials are used in industrial sectors such as coatings, adhesives, plastics and polymers.

In May 2025, 3M has reached an agreement that resolves all legacy claims related to the Chambers Works site in Salem County, New Jersey, currently owned by The Chemours Company and, before that, by DuPont. In addition, the settlement extends to PFAS-related claims that the State of New Jersey and its departments have, or may in the future have, against 3M.

Adhesive Types Covered:

Acrylic Adhesives

Polyvinyl Acetate (PVA) Adhesives

Polyurethane Adhesives

Epoxy Adhesives

Ethylene-Vinyl Acetate (EVA) Adhesives

Styrenic Block Copolymer (SBC) Adhesives

Sealant Types Covered:

Silicone Sealants

Acrylic Sealants

Polyurethane Sealants

Butyl Sealants

Other Sealant Types

Technologies Covered:

Water-based Systems

Solvent-based Systems

Hot-melt Systems

Reactive Systems

Applications Covered:

Paper & Packaging

Building & Construction

Transportation

Furniture & Woodworking

Footwear & Leather

Medical Devices

Consumer DIY

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment

Opportunities, and recommendations)

- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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