

Epoxy Adhesives Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Technology (One Component, Two Component, Others), By Application (Automotive & Transportation, Building & Construction, Power & Energy, Electrical & Electronics, Others), By Region & Competition, 2020-2030F

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Report description:

Market Overview

Global Epoxy Adhesives market was valued at USD 8.46 Billion in 2024 and is expected to reach USD 11.70 Billion by 2030 with a CAGR of 5.55%. The global epoxy adhesives market is witnessing consistent growth, underpinned by its extensive cross-industry applicability and the rising demand for high-performance, structural bonding solutions. Renowned for their superior mechanical strength, chemical resistance, and long-term durability, epoxy adhesives are indispensable in applications that require robust and reliable bonding under extreme conditions.

Their usage spans a wide array of critical industries, including automotive and transportation, where they support lightweighting and EV battery integration; construction, for anchoring and panel bonding; electronics, where thermal stability and precision bonding are crucial; and sectors like aerospace, renewable energy (notably wind turbines), and marine, where environmental exposure and mechanical stress necessitate high-performance adhesives.

As material science continues to advance, and industries demand more efficient, sustainable, and application-specific solutions, the epoxy adhesives market is well-positioned for long-term expansion. Manufacturers that invest in targeted R&D, regionalized production infrastructure, and low-emission or recyclable adhesive technologies will gain a competitive edge in capturing future market share across both mature and emerging economies.

Key Market Drivers

Expansion of the Building & Construction Sector

The expansion of the building and construction sector is a significant driver of growth in the global epoxy adhesives market, fueled by rising urbanization, infrastructure modernization, and a growing preference for high-performance construction materials.

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Epoxy adhesives are increasingly being adopted in residential, commercial, industrial, and infrastructure projects due to their exceptional mechanical strength, durability, and resistance to environmental stressors. While infrastructure development continues at pace, India remains acutely focused on integrating climate action into its growth strategy. The government has implemented a series of targeted measures to mitigate climate risks, which has contributed to a notable improvement in the country's Sustainable Development Goals (SDG) Index score from 57 in 2019 to 66 in 2021. Across both developed and developing economies, there is a surge in infrastructure investments, including smart cities, high-rise buildings, bridges, tunnels, airports, and transportation networks. Governments and private developers are investing heavily in large-scale infrastructure to support growing populations and economic activity. Epoxy adhesives are used extensively for structural bonding, anchoring, and grouting, particularly in demanding applications such as bridge decking, precast panel installation, and flooring systems. This sustained construction boom is significantly increasing the consumption of epoxy adhesives in structural and civil engineering applications. Construction projects today demand long-lasting and high-performance materials that can withstand harsh weather conditions, moisture, chemical exposure, and mechanical stress. Epoxy adhesives fulfill these requirements with their High tensile and shear strength, Excellent moisture and chemical resistance, Thermal and UV stability. As a result, they are widely used for tile and stone fixing, facade installation, structural glazing, sealing expansion joints, and bonding concrete or metal components especially in commercial and industrial settings. With the growing focus on sustainability and energy efficiency, builders are adopting materials that align with green building certifications (such as LEED and BREEAM). Epoxy adhesives are available in low-VOC and solvent-free formulations, making them suitable for eco-friendly construction. These adhesives contribute to air quality compliance, low environmental impact, and improved building lifecycle performance, further driving their adoption in modern construction. Epoxy adhesives are an integral component of epoxy flooring systems, which are widely used in commercial, industrial, and healthcare facilities due to their seamless finish, hygiene, abrasion resistance, and load-bearing capacity. These floor coatings are particularly valued in warehouses, hospitals, food processing plants, parking decks, and factories, where cleanliness and durability are paramount. Epoxy adhesives also play a role in floor tile and panel installation, offering long-lasting bond strength and chemical resistance.

Key Market Challenges

Environmental and Regulatory Pressures

One of the most critical challenges facing the epoxy adhesives market is increasing scrutiny over environmental sustainability, health hazards, and regulatory compliance. Traditional epoxy adhesives, especially solvent-based or bisphenol-A (BPA)-containing formulations, are associated with the release of volatile organic compounds (VOCs) and other hazardous substances during application and curing.

Stringent regulations in regions such as Europe (REACH), North America (EPA), and parts of Asia are tightening permissible VOC limits and encouraging the use of greener alternatives. Rising awareness about worker safety and indoor air quality is prompting industries to reduce or eliminate solvent-based adhesives. This growing regulatory burden is pushing manufacturers to reformulate products, invest in low-VOC, water-based, or bio-based epoxy adhesives, and comply with evolving environmental norms often at higher R&D and production costs, which could deter adoption in cost-sensitive markets.

Key Market Trends

Integration of Smart and Functional Epoxy Adhesives

A significant trend gaining momentum is the development and adoption of smart epoxy adhesives formulations embedded with functional properties that go beyond bonding. These advanced adhesives are designed to respond to external stimuli such as heat, pressure, or electrical signals, enabling new use cases in high-tech industries.

For example, self-sensing adhesives can monitor structural integrity in aerospace or civil infrastructure applications by detecting cracks, delamination, or stress. Thermally conductive and electrically insulating epoxies are finding growing use in electric vehicles (EVs), power electronics, and battery systems, where they enhance performance while protecting components. In high-precision fields like microelectronics and photonics, epoxy adhesives are being engineered with optical clarity, EMI shielding, and low outgassing properties, essential for mission-critical assemblies. This trend reflects a shift from adhesives as passive bonding agents to active, multifunctional materials that enhance the performance, reliability, and intelligence of the final product.

Key Market Players

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- Ashland Inc.
- Bostik
- The Dow Chemical Company
- H.B. Fuller Company
- Henkel AG & Co. KGaA
- MAPEI S.p.A.
- Parker Hannifin Corp
- Permabond LLC
- Sika AG

Report Scope:

In this report, the Global Epoxy Adhesives Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□Epoxy Adhesives Market, By Technology:

- o One Component
- o Two Component
- o Others

-□Epoxy Adhesives Market, By Application:

- o Automotive & Transportation
- o Building & Construction
- o Power & Energy
- o Electrical & Electronics
- o Others

-□Epoxy Adhesives Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia-Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Epoxy Adhesives Market.

Available Customizations:

Global Epoxy Adhesives market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

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