

Bioadhesives Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Source (Plant Based, Animal Based), By Application (Paper & Packaging, Construction, Woodworking, Personal Care, Medical, Others), By Region and Competition, 2020-2030F

Market Report | 2025-09-30 | 185 pages | TechSci Research

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Report description:

Market Overview

Global Bioadhesives Market was valued at USD 7.81 billion in 2024 and is expected to reach USD 13.75 billion by 2030 with a CAGR of 9.89% during the forecast period. The global market for Bioadhesives is experiencing significant growth, driven by increasing awareness among the population worldwide pertaining to different kinds of environmental concerns has led to a paradigm shift towards bio-based products. Additionally, governments across the globe are formulating policies supporting the role of bio-based products, thereby creating lucrative opportunities for the growth of global bioadhesives market in the coming years.

There is enormous demand for bioadhesives such as polyacrylic acid, cyanoacrylates, and chitosan from diverse industries which they use to produce desired goods. The primary application of Bioadhesives is door and window assembly, construction material, vehicle parts, the HVAC industry, prefabricated houses, packaging, the woodwork industry, and other works. Therefore, the globally rising demand for Bioadhesives in the market is expected to increase rapidly owing to the population and environmentally friendly substitutes of synthetic adhesives.

Key Market Drivers

Policy & Public Procurement That Prioritize Biobased Products and Low-Emission Materials

Government policy and public procurement programs are one of the single strongest macro drivers accelerating adoption of bioadhesives. Over the past decade governments and supranational bodies have adopted bioeconomy, circular-economy and green-procurement strategies that explicitly prefer or incentivize products derived from renewable biological feedstocks and those with lower lifecycle greenhouse-gas footprints. In the United States, the USDA's BioPreferred program is an explicit example: it

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establishes a federal purchasing preference for certified biobased products and a voluntary labelling program that makes biobased content visible to buyers. USDA analysis of the broader biobased products sector (which includes adhesives and other intermediate materials) reports major economic scale - for example, the U.S. biobased products industry contributed roughly \$489 billion in value added and supported ~3.94 million jobs (2021 model year) - demonstrating the scale and policy focus behind expansion of biobased supply chains and procurement. These types of national programs create demand pull: institutional purchasers (governments, public projects, large corporates complying with procurement rules) are significant customers for adhesives used in construction, furniture and packaging, so procurement preferences directly make bio-based adhesive alternatives commercially viable at scale.

Key Market Challenges

Technical Performance Parity and Industrial Compatibility

The principal technical challenge for bioadhesives is achieving consistent, long-term performance equal to or better than fossil-derived adhesives across demanding industrial conditions - particularly water and heat resistance, long shelf-life, and rapid curing compatible with high-speed manufacturing lines. Many successful laboratory formulations (starch-based, protein-based, lignin-modified systems) show promising bond strength for controlled conditions but have historically failed to match the combination of properties that phenolic or synthetic resins offer across a wide range of substrates and service conditions. For example, adhesives in wood-panel manufacture must survive hot-press temperatures, repeated humidity cycles, and mechanical stresses while not lengthening production cycle times.

Key Market Trends

Industrial R&D and Public R&D Consortia Moving Bioadhesives from Lab To Multi-Ton Manufacturing

A clear trend across the bioadhesives space is consolidation of academic, SME and industrial R&D efforts into funded consortia and demonstration projects that explicitly target industrial-scale production and performance parity with fossil-based adhesives. Over the past few years, major government research programs and EU Horizon projects have funded targeted innovation pipelines - from feedstock selection (lignin, protein fractions, tannins, hemicellulose sugars) through formulation and process engineering to pilot-line trials in particleboard and MDF production. These consortia perform the critical "valley of death" work: addressing process yield, water resistance, bonding strength, curing profiles and cost competitiveness at scale. Several EU CORDIS/Horizon projects (publicly funded) have announced demonstrator goals to produce adhesives at multi-ton scale and validate performance in industrial board lines, explicitly quantifying impacts such as potential CO₂ footprint reductions.

Key Market Players

- [] Henkel AG
- [] Bostik SA
- [] Ashland Global Holdings Inc.
- [] Jowat SE
- [] Ingredion, Inc.
- [] EcoSynthetix Inc.
- [] Tate & Lyle PLC
- [] Dow Chemical Company
- [] 3M Company
- [] Bio adhesive Alliance Inc.

Report Scope:

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

- [] Bioadhesives Market, By Source:

- o Plant Based
- o Animal Based

- [] Bioadhesives Market, By Application:

- o Paper & Packaging
- o Construction

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- o Woodworking
- o Personal Care
- o Medical
- o Other

-□Bioadhesives Market, By Region:

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

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Bioadhesives Market.

Available Customizations:

Global Bioadhesives 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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