

## **Bio-based binder Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

Market Report | 2025-07-18 | 210 pages | Global Market Insights

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### **Report description:**

The Global Bio-based Binder Market was valued at USD 3.6 billion in 2024 and is estimated to grow at a CAGR of 5.7% to reach USD 6.3 billion by 2034. Bio-based binders, developed from renewable sources like lignin, starches, and plant oils, are increasingly replacing synthetic adhesives in sectors such as construction, composites, and packaging. As sustainability becomes central to industry practices, companies and consumers are pushing for eco-conscious alternatives that reduce environmental impact. This growing demand for greener materials aligns with evolving global policies and environmental mandates.

Regulations promoting lower emissions and the use of renewable resources-particularly from governing bodies in North America and Europe-are encouraging manufacturers to expand their bio-based portfolios and accelerate innovation. These regulatory frameworks are becoming increasingly stringent, pushing industries to shift from petrochemical-based products to environmentally responsible alternatives. Incentives such as tax credits, government grants, and subsidies for using sustainable materials are further motivating companies to develop bio-based binders that comply with eco-labeling and environmental certifications. Mandates like carbon reduction targets and restrictions on VOC (volatile organic compound) emissions are compelling manufacturers to invest in cleaner technologies, reengineer production lines, and reformulate existing adhesives. This regulatory momentum not only fosters the development of low-impact materials but also sets the stage for widespread adoption across sectors like automotive, packaging, construction, and textiles.

The sustainability goal is driving adoption across various industries, with construction and building materials segment holding 25.9% share in 2024. The shift toward green infrastructure and eco-friendly building certifications is encouraging manufacturers to integrate bio-based binders into concrete mixtures, insulation, and other foundational materials to minimize carbon emissions in development projects.

The wood-based feedstock segment led the global market in 2024, supported by a strong supply chain, cost-effective sourcing, and its ease of processing into biopolymer adhesives. A robust forestry industry ensures steady raw material availability, making wood-based inputs more accessible for manufacturers. Meanwhile, agricultural residues are steadily gaining attention. These include leftover materials like straw and stalks, which not only reduce waste but also add value to farming by-products, helping balance economic and environmental priorities.

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U.S. Bio-based binder Market generated USD 1.3 billion in 2024. With its developed manufacturing base and increasing demand for green construction and sustainable consumer products, the U.S. remains a key growth driver. Growing efforts to reduce the nation's carbon footprint have strengthened the push toward environmentally friendly adhesives across key sectors such as packaging, construction, and furniture. Demand for bio-based binders continues to rise in response to eco-conscious consumer trends and industrial sustainability goals.

Key companies in the Global Bio-based binder Market include Arkema, Sappi Limited, Ashland Global Holdings, BASF SE, BioBond Adhesives, Borregaard ASA, The Dow Chemical Company, Stora Enso Oyj, Ingredion Incorporated, and Cargill. To strengthen their foothold in the bio-based binder market, companies are focused on expanding their product lines through continuous R&D and collaborations aimed at improving performance and scalability. Strategic partnerships with raw material suppliers and end-use industries help create reliable supply chains and open doors to new applications. Many players are also investing in next-gen binder technologies that meet stringent global sustainability standards. Mergers and acquisitions are being pursued to enhance production capabilities and access untapped markets. Companies are tailoring product innovations for high-demand sectors like construction and packaging, while increasing production efficiency through process automation and renewable energy integration.

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## Comprehensive Market Analysis and Forecast

- Industry trends, key growth drivers, challenges, future opportunities, and regulatory landscape
- Competitive landscape with Porter's Five Forces and PESTEL analysis
- Market size, segmentation, and regional forecasts
- In-depth company profiles, business strategies, financial insights, and SWOT analysis

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