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Global Low-VOC Structural Adhesive Market Growth 2026-2032

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Abstracts

The global Low-VOC Structural Adhesive market size is predicted to grow from US$ 7210 million in 2025 to US$ 10812 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

ow-VOC Structural Adhesive refers to a high-strength adhesive designed to transfer load between bonded substrates while reducing volatile organic compound emissions, solvent content, odor, or process-related airborne emissions. The market mainly includes low-VOC or solvent-free epoxy, polyurethane, acrylic, methacrylate, silane-modified polymer, and reactive hot-melt structural adhesives.

Products may be supplied as one-component or two-component systems and may cure through chemical reaction, heat, moisture, or reactive hot-melt mechanisms. Typical products are used for bonding metals, composites, engineering plastics, glass, concrete, engineered wood, and dissimilar materials in applications requiring mechanical strength, impact resistance, fatigue durability, or long-term environmental resistance.

The 2025 benchmark ASP is US$6,000 per ton, global sales volume is approximately 1,228.333k tons, and the estimated average gross margin is approximately 33%. The upstream industry chain includes epoxy resins, polyols, isocyanates, acrylic and methacrylic monomers, silane-modified polymers, curing agents, catalysts, toughers, fillers, flame retardants, rheology modifiers, adhesion promoters, pigments, and packaging materials. The midstream includes formulation development, compounding, vacuum mixing, dispersion, filling, cartridge or drum packaging, quality testing, application validation, and technical support. The downstream mainly covers transportation, construction, renewable energy, industrial assembly, electronics,

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aerospace, and marine industries.

Demand for low-VOC structural adhesives is supported by stricter workplace-emission requirements, vehicle interior air-quality standards, green-building certification, increased use of lightweight multi-material structures, and the replacement of welding, riveting, and mechanical fastening.

Modern low-emission structural adhesives can improve worker comfort while maintaining high shear, peel, impact, fatigue, and environmental resistance. Low-odor acrylic systems are increasingly used where conventional MMA odor is a concern, while solvent-free epoxy and polyurethane systems are widely used in automotive, engineered wood, wind energy, construction, and composite assembly.

Automotive and transportation manufacturers are increasing the use of low-VOC and solvent-free adhesives to reduce factory emissions and improve vehicle interior air quality. Structural bonding also enables thinner metals, composites, plastics, and dissimilar materials to be joined without concentrated stress around mechanical fasteners.

Future development will focus on lower odor, reduced hazardous labeling, bio-based raw materials, lower curing temperatures, faster room-temperature strength development, improved adhesion without primers, disassembly and repair capability, automated dispensing, digital quality monitoring, and reduced carbon footprint.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Low-VOC Structural Adhesive Industry Forecast” looks at past sales and reviews total world Low-VOC Structural Adhesive sales in 2025, providing a comprehensive analysis by region and market sector of projected Low-VOC Structural Adhesive sales for 2026 through 2032. With Low-VOC Structural Adhesive sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Low-VOC Structural Adhesive industry.

This Insight Report provides a comprehensive analysis of the global Low-VOC Structural Adhesive landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low-VOC Structural Adhesive portfolios and capabilities, market entry

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strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-VOC Structural Adhesive market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-VOC Structural Adhesive and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low-VOC Structural Adhesive.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-VOC Structural Adhesive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

One-Component Type

Two-Component Type

Segmentation by Working Time:

Fast-Curing Type

Medium Working-Time Type

Long Open-Time Type

Segmentation by Viscosity:

Flowable Type

Medium-Viscosity Type

Non-Sag Paste Type

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Segmentation by Application:

Automotive & Transportation

Aerospace & Defense

Building & Construction

Wind Energy & Renewables

Electronics & Electrical Equipment

Marine

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- 3M Company
- Henkel AG & Co. KGaA

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Sika AG

Huntsman Corporation

Illinois Tool Works Inc. (ITW Performance Polymers / Plexus)

Parker-Hannifin Corporation (LORD)

H.B. Fuller Company

Arkema S.A. (Bostik)

Dow Inc.

Scott Bader Company Limited

Permabond LLC

Kisling AG

Hubei Huitian New Materials Co., Ltd.

Kangda New Materials (Group) Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-VOC Structural Adhesive market?

What factors are driving Low-VOC Structural Adhesive market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Low-VOC Structural Adhesive market opportunities vary by end market size?

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How does Low-VOC Structural Adhesive break out by Type, by Application?

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