

Global Low-VOC Structural Adhesive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-VOC Structural Adhesive market size is expected to reach \$ 11145 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Low-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, tougheners, 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,

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

This report studies the global Low-VOC Structural Adhesive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-VOC Structural Adhesive and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-VOC Structural Adhesive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-VOC Structural Adhesive total production and demand, 2021-2032,
(Kilotons)

Global Low-VOC Structural Adhesive total production value, 2021-2032, (USD Million)
Global Low-VOC Structural Adhesive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Low-VOC Structural Adhesive consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Low-VOC Structural Adhesive domestic production, consumption, key domestic manufacturers and share
Global Low-VOC Structural Adhesive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Low-VOC Structural Adhesive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Low-VOC Structural Adhesive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Low-VOC Structural Adhesive market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 3M Company, Henkel AG & Co. KGaA, 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low-VOC Structural Adhesive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-VOC Structural Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-VOC Structural Adhesive Market, Segmentation by Type:

One-Component Type

Two-Component Type

Global Low-VOC Structural Adhesive Market, Segmentation by Working Time:

Fast-Curing Type

Medium Working-Time Type

Long Open-Time Type

Global Low-VOC Structural Adhesive Market, Segmentation by Viscosity:

Flowable Type

Medium-Viscosity Type

Non-Sag Paste Type

Global Low-VOC Structural Adhesive Market, Segmentation by Application:

Automotive & Transportation

Aerospace & Defense

Building & Construction

Wind Energy & Renewables

Electronics & Electrical Equipment

Marine

Others

Companies Profiled:

3M Company

Henkel AG & Co. KGaA

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 Answered:

1. How big is the global Low-VOC Structural Adhesive market?
2. What is the demand of the global Low-VOC Structural Adhesive market?
3. What is the year over year growth of the global Low-VOC Structural Adhesive market?
4. What is the production and production value of the global Low-VOC Structural Adhesive market?
5. Who are the key producers in the global Low-VOC Structural Adhesive market?
6. What are the growth factors driving the market demand?

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