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UV Curable Resins Market Forecasts to 2032 – Global Analysis By Resin Type (Acrylated Epoxies, Acrylated Polyesters, Acrylated Urethanes, Acrylated Silicones and Other Resin Types), Composition, Technology, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global UV Curable Resins Market is accounted for $6.4 billion in 2025 and is expected to reach $10.7 billion by 2032 growing at a CAGR of 7.5% during the forecast period. UV curable resins are light-sensitive polymers that harden instantly when exposed to ultraviolet light, used in coatings, adhesives, and 3D printing. Composed of monomers, oligomers, and photo initiators, they offer rapid curing, durability, and low VOC emissions. Their versatility suits applications in electronics, automotive, and medical industries, providing high-gloss finishes and strong bonds. Eco-friendly and energy-efficient, UV curable resins support sustainable manufacturing with precise, high-performance results.

According to data from the International Organization of Motor Vehicle Manufacturers (OICA), more than 80 million automobiles were made worldwide in 2023, which increased demand for UV-curable resins for high-performance and long-lasting automotive applications.

Market Dynamics:

Driver:

Growth in 3D and digital printing

The increasing adoption of 3D printing across various industries is significantly

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propelling the demand for UV curable resins. These resins are crucial for achieving the precision and intricate details required in additive manufacturing processes. This technology offers superior print quality and faster production speeds, which are highly valued in modern printing environments. The continuous innovation in both 3D and digital printing technologies is creating a fertile ground for the UV curable resins market to flourish. Moreover, the environmental benefits of UV curing, such as reduced VOC emissions, align well with sustainability trends in these industries.

Restraint:

High initial capital investment

The substantial upfront capital required for UV curing equipment poses a significant restraint on market expansion. Businesses, especially smaller enterprises, may find it challenging to allocate the necessary funds for machinery and setup. This financial barrier can deter potential adopters, particularly in emerging economies where capital availability might be limited. The ongoing maintenance and energy costs associated with high-intensity UV lamps can also contribute to the overall operational expenditure. Consequently, the high initial investment can slow down the wider adoption of UV curable resin technologies.

Opportunity:

Innovation in biobased resins

The ongoing innovation in biobased resins presents a significant opportunity for the UV curable resins market. As environmental concerns escalate, there is a growing demand for sustainable and eco-friendly alternatives. Furthermore, advancements in biobased resin technology can lead to enhanced performance characteristics, such as improved flexibility and adhesion. This focus on sustainability also aligns with increasing regulatory pressures to reduce reliance on fossil fuels. Consequently, investing in research and development for biobased resins can unlock new market segments and drive substantial growth.

Threat:

Competition from traditional coatings

The UV curable resins market faces a notable threat from the entrenched competition of

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traditional coatings. Established coating technologies, such as solvent-borne and waterborne systems, have long dominated various industrial applications. Furthermore, some industries may be resistant to transitioning to new technologies due to existing infrastructure and operational familiarity. The perceived complexity of implementing UV curing systems, coupled with initial investment concerns, can make traditional coatings a more appealing option for some users. Moreover, continuous advancements in traditional coating formulations may allow them to maintain a competitive edge in specific applications.

Covid-19 Impact:

The COVID-19 pandemic introduced notable shifts in the UV curable resins market dynamics. Initially, the widespread disruption of manufacturing and supply chains led to a temporary decline in demand across various industries. Lockdowns and economic uncertainties impacted investments in new equipment and expansion projects. Furthermore, the crisis highlighted the importance of resilient supply chains, prompting a re-evaluation of sourcing strategies. Overall, while presenting immediate challenges, the pandemic also fostered certain growth opportunities for UV curable resins in evolving industrial landscapes.

The monomers segment is expected to be the largest during the forecast period

The monomers segment is expected to account for the largest market share during the forecast period, motivated by their critical role as foundational building blocks, the Monomers segment is expected to account for the largest market share during the forecast period. Influenced by their cost-effectiveness and ready availability, monomers remain a preferred choice for manufacturers. Backed by continuous advancements in monomer synthesis, new and improved resin formulations are constantly emerging. Initiated by the broad application scope, from coatings to adhesives and 3D printing, monomers maintain their dominant position.

The epoxy acrylates segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the epoxy acrylates segment is predicted to witness the highest growth rate, fuelled by their excellent chemical resistance and durability. Guided by the expanding use in high-performance coatings and composites, this segment is experiencing rapid growth. Influenced by the ongoing development of more versatile and sustainable epoxy acrylate formulations, their market appeal is widening. Spurred

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by their beneficial combination of hardness and flexibility, epoxy acrylates are becoming indispensable in various industries.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. This dominance is primarily attributed to the rapid industrialization and manufacturing growth occurring across countries like China and India. The expanding automotive, electronics, and packaging sectors in the region are driving substantial demand for UV curable resins. The presence of a large consumer base and growing disposable incomes also fuels the demand for finished goods utilizing these resins. Additionally, a supportive regulatory environment and a readily available labour force further solidify Asia Pacific's leading position.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by significant technological advancements and increasing research and development activities in the region. Furthermore, a rising focus on sustainable and environmentally friendly solutions among industries is boosting the demand for low-VOC UV curable resins. The strong presence of key market players and continuous innovation in product offerings contribute significantly to this growth. Additionally, increasing investments in the aerospace and medical industries are creating new avenues for high-performance UV curable resins.

Key players in the market

Some of the key players in UV Curable Resins Market include Arkema, Allnex, Toagosei, BASF, Royal DSM, Coatings Covestro, Nippon Gohsei, Hitachi Chemical, IGM Resins, Lambson, Alberdingk, Jiangsu Sanmu, Wanhua Chemical, Eternal, Soltech, Dymax, Rahn, Perstorp, Qualipoly, and DIC.

Key Developments:

In June 2025, Allnex unveiled a new UV-curable oligomer series tailored for high-durability industrial coatings. Designed to enhance surface hardness, chemical resistance, and cure speed, the product supports rapid production and durability in automotive, electronic, and protective coating applications.

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In May 2025, IGM Resins introduced Omnirad 819LF, a next-generation photoinitiator engineered for low migration in food and pharmaceutical packaging. The product complies with regulatory standards while delivering robust reactivity under UV exposure, ensuring safe and efficient curing for sensitive substrates.

In April 2025, BASF expanded its UV-curable acrylate dispersion range by launching eco-friendly formulations that meet strict low-VOC standards. These waterborne resins are tailored for wood coatings, providing excellent flow, adhesion, and gloss control while supporting environmental sustainability in architectural applications.

Resin Types Covered:

- Acrylated Epoxies
- Acrylated Polyesters
- Acrylated Urethanes
- Acrylated Silicones
- Other Resin Types

Compositions Covered:

- Monomers
- Oligomers
- Photoinitiators
- Other Compositions

Technologies Covered:

- Free Radical UV Curing
- Cationic UV Curing

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- Hybrid Systems

Applications Covered:

- Wood & Paper Coatings
- Plastic Coatings
- Metal Coatings
- Printing Inks
- Adhesives
- 3D Printing
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy

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- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar

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South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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