

Automotive Conformal Coatings Market by Material (Acrylic, Silicone, Epoxy, Polyurethane, Parylene), Component (ECU, PCB, Sensor, Battery Casing, LED and Infotainment System), Application Method, Vehicle Type, EV, Region - Global Forecast to 2030

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Abstracts

The automotive conformal coating market is projected to reach USD 3.5 billion by 2030, from an estimated USD 2.0 billion in 2024, at a CAGR of 10.0% during the forecast period. Modern vehicles are increasingly equipped with advanced electronic systems, including infotainment systems, advanced driver-assistance systems (ADAS), sensors, and control units. The trend toward smaller, more complex electronic components increases their vulnerability to environmental damage, making conformal coatings essential for protection. In addition, the rise of electric vehicles (EVs) and autonomous driving technologies demands robust protection for high-voltage components and critical electronic systems, driving the adoption of conformal coatings.

“BEV segment is the fastest-growing segment in the conformal coating market.”

Stringent emission norms across the globe have led to an increased focus by governments on promoting and investing in BEVs. This is expected to create a favorable environment for BEV sales and drive its demand. BEVs rely heavily on sophisticated electronic systems for battery management, power conversion, propulsion, and various safety and infotainment functions. These electronic components are particularly susceptible to environmental factors such as moisture, dust, temperature fluctuations, and chemical exposure. Conformal coatings provide essential protection against these hazards, ensuring the reliability and longevity of critical electronic systems in BEVs. The increasing sales of BEVs is expected to fuel the demand for conformal coatings to protect these vital components. These factors are

expected to drive the market growth for BEV segment in near future.

The rapid advancement in electric vehicles space is also propelling the growth of the conformal coating market. Innovations in battery technology, power electronics, and vehicle connectivity are introducing more complex and sensitive electronic components that require robust protection. This will spur the demand for conformal coating in the forecast period.

“Passenger Car is dominating the conformal coating market by vehicle type.”

The passenger car segment is a dominant force in the conformal coating market, driven by the increasing integration of advanced electronic systems in modern vehicles. Today's passenger cars are equipped with a plethora of electronic components, including infotainment systems, advanced driver-assistance systems (ADAS), engine control units (ECUs), and various sensors. These components are critical for enhancing vehicle performance, safety, and user comfort. Conformal coatings provide the necessary protection for these sensitive electronics against environmental factors such as moisture, dust, chemicals, and temperature extremes, ensuring their reliability and longevity. The widespread adoption of these advanced systems in passenger cars significantly boosts the demand for conformal coatings.

The rise of electric vehicles (EVs) and connected vehicles within the passenger car segment further drives the conformal coating market. EVs rely heavily on electronic systems for battery management, propulsion, and regenerative braking. Connected vehicles, which offer features like real-time navigation, remote diagnostics, and over-the-air updates, also depend on a robust network of electronic components. Conformal coatings are essential for protecting these electronics. As the adoption of EVs and connected vehicles continues to grow, propelled by consumer demand for sustainable and technologically advanced transportation options, the need for effective conformal coatings in the passenger car segment will continue to rise.

“India to grow at the highest CAGR for Asia Pacific conformal coating market.”

India's growth in the conformal coating market is also fueled by technological advancements and infrastructure development. The Indian automotive sector is rapidly adopting advanced technologies, including electric and autonomous vehicle systems, which rely heavily on complex electronics. Conformal coatings are crucial for protecting these electronic components from factors like moisture, dust, and temperature fluctuations, ensuring their reliability and longevity. Additionally, the development of

infrastructure to support electric vehicles, such as charging stations and smart grids, is accelerating. This infrastructure boom is creating a conducive environment for the growth of the conformal coating market, as it increases the reliance on electronic systems that require robust protective measures.

The Indian government has launched several programs aimed at promoting the adoption of electric vehicles and enhancing vehicle safety standards. Initiatives such as the Faster Adoption and Manufacturing of Hybrid and Electric Vehicles (FAME) scheme provide financial incentives for the production and purchase of EVs, which in turn drives the demand for conformal coatings. Moreover, stringent regulations related to vehicle emissions and safety compel manufacturers to integrate high-quality electronic systems that need effective protection. These regulatory measures ensure that conformal coatings become an integral part of the automotive manufacturing process, thereby driving market growth at an unprecedented rate in India.

The break-up of the profile of primary participants in the automotive conformal coating market:

By Stakeholder: Demand Side - 20%, Supply Side – 80%

By Designation: C level - 10%, D level - 30%, Others – 60%

By Region: North America - 20%, Europe - 20%, Asia Pacific- 60%

The automotive conformal coatings market is led by globally established players such as Dow (US), Henkel AG & CO. KGAA (Germany), Chase Corporation (US), H.B. Fuller (US), and Shin-etsu Chemical Co. Ltd. (Japan). The study includes an in-depth competitive analysis of these key players in the automotive conformal coating market with their company profiles, SWOT analysis of the top 5 companies, recent developments, and key market strategies.

Research Coverage:

The study segments the automotive conformal coatings market based on material (parylene, silicone, acrylic, epoxy, and polyurethane), component (ECU, PCB, sensors, battery casing, LED, and infotainment system), vehicle type (passenger car, light commercial vehicle, heavy commercial vehicle), EV type (Battery Electric Vehicle (BEV) and Hybrid/ Plug-in Hybrid Electric Vehicle (HEV/PHEV), application method (brush coating, dipping, spray coating, selective coating, vapor deposition) and region (Asia

Pacific, Europe, North America, and Rest of the World).

The report's scope covers detailed information regarding the major factors, such as influencing factors for the growth of the automotive conformal coating market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, key strategies; contracts, agreements, new product launches, and recent developments associated with the market.

Key Benefits of Buying the Report:

The report will help the market leaders/new entrants in this market with the information on the closest approximations of the revenue numbers for the overall automotive conformal coating market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing adoption of electronics in automobiles, Increasing adoption of electric vehicles), restraints (Costly removal and rework in case of damage, Size reduction of components), opportunities (Technological advancements in conformal coating, Advancement in autonomous and connected mobility) and challenges (High price of conformal coating, Stringent government regulation, Lack of technical knowledge) influencing the growth of the automotive conformal coating market.

Product Development/Innovation: Detailed insights on technologies, and new product launches in the automotive conformal coating market.

Market Development: Comprehensive information about the markets – the report analyses the automotive conformal coating market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, and recent developments in automotive conformal coating market.

Competitive Assessment: In-depth assessment of market shares, growth strategies offerings of leading players like Dow (US), Henkel AG & CO. KGAA

(Germany), Chase Corporation (US), H.B. Fuller (US), and Shin-etsu Chemical Co. Ltd. (Japan) among others in automotive conformal coating market.

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