

Conformal Coatings Market Outlook Report - Market Size, Share Analysis and Forecast (2025-2034)

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Report description:

The global conformal coatings market, valued at USD 13.73 Billion in 2024, has witnessed substantial growth. These coatings offer a protective layer to electronic components, safeguarding them from environmental factors such as moisture, dust, and chemicals, thereby enhancing the reliability and lifespan of products. The market is projected to grow at a compound annual growth rate (CAGR) of 5.00% from 2025 to 2034, potentially reaching USD 22.36 Billion by 2034. The development of new coating materials, such as water-based and UV-cured coatings, provides improved performance, environmental benefits, and faster application processes.

Global Conformal Coatings Market Growth

The growth of the conformal coatings market is driven by numerous benefits, such as improved protection against environmental factors, corrosion resistance, and enhanced product reliability. It supports the rising demand for electronics, offers cost-effective solutions, and promotes eco-friendly alternatives.

Furthermore, conformal coatings increase manufacturing efficiency, aid in regulatory compliance, and expand market reach in industries like automotive and healthcare. The global automotive sector produced around 28.43 million vehicles between April 2023 and March 2024, reflecting recovery and strong consumer demand, according to Invest India, June 2024.

Key Trends and Recent Developments

Increased motor vehicle manufacturing, rising exports of electronic integrated circuit components, and the use of sustainable materials are driving the conformal coatings market value.

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July 2024

Dow introduced DOWSIL CC-8000 Series UV and Dual Moisture Cure Conformal Coatings, a range of solventless silicone coatings offering strong protection for electronic components in renewable energy applications, as well as e-motors, power speeds and reducing energy costs compared to heat-cure materials and room-temperature cure materials. The solvent-free, one-part, translucent conformal coatings also create a better work environment.

November 2023

Nordson Electronics Solutions, a global leader in electronics manufacturing technologies, launched its new ASYMTEK Select Coat SL-1040 conformal coating solution, paired with the SC-450 PreciseCoat Jet and enhanced EasyCoat software, designed for high-volume production of printed circuit assembly. The solution features system-level advancements, including dual and triple applicators, a new ultrasonic cleaning station, and ESD-safe components, enhancing automation, control, precision, and preventive maintenance.

July 2023

Chase Corporation, through its Humiseal brand, introduced UV550, a solvent-free, UV-curable elastomeric acrylate conformal coating that exhibited extremely high performance in thermal and mechanical shock testing. It proved its ability to withstand over 1000 cycles of thermal shock without cracking, meeting standard testing protocols.

November 2021

Electrolube, owned by MacDermid Alpha Electronics Solutions, launched a groundbreaking, first-of-its-kind, new two-part, bio-based conformal coating at the Productronica event in Munich. The coating, with exceptional properties, was designed specifically for automotive and electric vehicle applications.

Increased Motor Vehicle Manufacturing is Leading to the Conformal Coatings Demand Growth

The growth in motor vehicle manufacturing is a key driver for the expansion of the conformal coatings market, as the automotive industry continues to adopt advanced electronic components such as sensors, control systems, and powertrain electronics in electric vehicles (EVs) and autonomous driving systems. Conformal coatings offer ideal protection from moisture, dust, and temperature fluctuations. In 2022, global motor vehicle production reached 85.4 million units, a 5.7% increase from 2021, according to the European Automobile Manufacturers' Association.

Rising Exports of Electronic Integrated Circuit Components is Impacting the Conformal Coatings Market Revenue

The rising exports of electronic integrated circuits (IC) and their components are significantly contributing to the growth of the conformal coatings market. In 2023, their top global exports, Malaysia, Hong Kong, and Japan, generated an overall export revenue exceeding USD 14 billion, according to the World Bank. These products require coatings that can ensure durability, performance, and safety against environmental stressors like moisture, chemicals, and heat to IC components used in a wide range of applications, from consumer electronics to industrial machinery and automotive systems. As a result, a further increase in their global trade is expected to lead to a surge in their market revenue.

Use of Sustainable Materials is Driving the Conformal Coatings Market Growth

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Regulatory impositions and growing environmental awareness have encouraged manufacturers to shift towards more eco-friendly materials for conformal coatings. As a result, coatings that are low in VOCs (volatile organic compounds), non-toxic, and biodegradable coatings are becoming more popular in the market. In October 2021, Dow introduced the new DOWSIL CC-2588 Conformal, a tough, abrasion-resistant silicone-based material that not only protected printed circuit boards (PCBs) and electronic components against high humidity and corrosion but also offered extremely low volatile organic compounds (VOCs), supporting its sustainable application. The shift towards such sustainable materials in conformal coatings is expected to drive long-term growth and stability in the market.

Improving Products for Maximum Efficiency is a Significant Trend of the Conformal Coatings Market

The trend of enhancing products for maximum efficiency is gaining traction in the conformal coatings market, as manufacturers focus on developing coatings that offer multiple benefits such as high-grade protection, cost-effectiveness, and ease of application. Innovations include thinner coatings, faster curing, and providing superior environmental protection, such as resistance to extreme temperatures, moisture, and chemicals. In 2022, HumiSeal, a leading conformal coatings manufacturer, launched a new product, 1B73/730EU, featuring a new solvent blend that reduced bubbles during application, an issue experienced by several users of conformal coatings. The product a single component, fast drying, acrylic conformal coating was particularly suited for printed circuit assemblies.

Global Conformal Coatings Industry Segmentation

The EMR's report titled "Global Conformal Coatings Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Silicon
- Acrylic
- Epoxy
- Urethane
- Parylene
- Others

Market Breakup by End Use

- Electronics
- Aerospace and Defense
- Automotive and Transportation
- Industrial
- Marine
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America

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- Middle East and Africa

Global Conformal Coatings Market Share

According to conformal coatings market analysis, the market is driven by the need to protect electronic components from moisture, dust, and temperature fluctuations, which improves reliability and longevity. This segment is expected to experience substantial growth, with a projected CAGR of 6.8% from 2024 to 2032. As electronics miniaturize, these coatings are crucial for safeguarding sensitive circuitry, contributing to significant market growth. The Indian electronics export market is expected to reach USD 120 billion by FY26, driven by increasing domestic production and global demand for electronic components, according to the Ministry of Electronics and Information Technology (MeitY), 2024.

In aerospace and defence, conformal coatings offer vital protection against extreme conditions, ensuring the reliability of critical systems. Their resistance to high temperatures and corrosive environments makes them essential in this sector. The U.S. aerospace industry produced products worth around USD 200 billion in 2023, as per the U.S. Department of Commerce.

In the automotive sector, conformal coatings shield electronic components from moisture and chemicals, improving the durability and performance of automotive systems. This demand of the conformal coatings market is especially driven by the rise of electric vehicles (EVs). According to the International Organization of Motor Vehicle Manufacturers (OICA), approximately 28 million vehicles were produced globally in 2022, with a growing shift towards EVs to meet consumer and environmental needs.

In industrial applications, conformal coatings protect machinery and electronic components from environmental stressors like moisture and dust, enhancing efficiency and reducing maintenance costs. The global industrial manufacturing sector, valued at around USD 5 trillion in 2022, continues to benefit from advances in automation and manufacturing technologies, as reported by the World Bank.

The growth of the conformal coatings market is further boosted by their use in marine applications, protecting electronic systems from harsh seawater and humidity. Their durability ensures the reliability of navigation and communication systems on vessels. The shipbuilding industry produced vessels worth around USD 100 billion in 2023, reflecting strong demand for commercial shipping amid growing global trade, according to the U.S. Department of Transportation, Maritime Administration.

Competitive Landscape

The conformal coatings market key players are focused on the development and production of adhesives, sealants, coatings, and other specialised materials. These companies serve various industries, including electronics, automotive, packaging, and construction, offering innovative solutions that improve product performance and longevity. Their dedication to sustainability is evident in their emphasis on eco-friendly products and minimising environmental impact through efficient manufacturing processes.

Henkel AG & Company, KGaA

Henkel AG & Company, KGaA: Established in 1876 and headquartered in Dusseldorf, Germany, Henkel is a global leader in consumer and industrial products. It specialises in adhesives, sealants, and surface treatment solutions, with renowned brands across home care, beauty care, and adhesive technologies, offering innovative products to various industries.

Chemtronics Technologies Pvt. Ltd.

Chemtronics Technologies Pvt. Ltd.: Founded in 1980 and based in Pune, India, Chemtronics Technologies is a leading provider of

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electronic cleaning and protection solutions. The company offers advanced products, including conformal coatings and fluxes, catering to industries such as electronics, aerospace, and automotive, supporting manufacturing processes with high-quality solutions.

Shin-Etsu Chemical Co., Ltd.

Shin-Etsu Chemical Co., Ltd.: Headquartered in Tokyo, Japan, Shin-Etsu was founded in 1926 and is a global leader in the chemical industry. Specialising in silicones and semiconductor materials, the company supplies innovative, high-performance products to sectors such as electronics, automotive, and construction.

Dow Silicones Corporation

Dow Silicones Corporation: A subsidiary of Dow Inc., Dow Silicones Corporation was founded in 1943 and is based in Midland, Michigan, USA. It specialises in silicone-based products, serving industries such as electronics, automotive, and construction with high-performance materials designed for a wide range of applications across various sectors.

Other key players in the conformal coatings market report include H.B. Fuller Company, Chase Corporation, and Electrolube among others.

Conformal Coatings Market Competitive Landscape

Conformal Coatings Market Size

Conformal Coatings Market Analysis

Conformal Coatings Companies

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