

Global Aerospace Adhesives and Sealants Market Report and Forecast 2023-2028

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Report description:

Global Aerospace Adhesives and Sealants Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global aerospace adhesives and sealants market reached a value of USD 1.15 billion in 2022. Aided by the escalating growth in the aerospace sector and the critical role these materials play in aircraft construction and maintenance, the market is projected to further grow at a CAGR of 5.40% between 2023 and 2028 to reach a value of USD 1.6 billion by 2028.

Aerospace adhesives and sealants are specially formulated materials that are extensively used in the construction, maintenance, and repair of aircraft. They play an indispensable role in ensuring structural integrity, resistance to extreme temperatures, and protection against environmental conditions. The rigorous demands of the aerospace sector necessitate that these adhesives and sealants not only bond components but also seal gaps, preventing leakage of air or fluids, and resisting corrosive aviation fuels and other chemicals.

The global aerospace adhesives and sealants market growth is significantly tied to the rise in aircraft production and the expansion of the global aviation sector. As air travel becomes increasingly accessible to a broader segment of the population, the demand for new aircraft, and consequently, these speciality materials, witnesses an upward trajectory. Additionally, the push towards more energy-efficient aircraft design has prompted the use of lighter composite materials, further underscoring the importance of robust adhesive and sealant solutions.

Moreover, the aerospace sector is characterised by its relentless drive for safety and performance enhancements. The aerospace adhesives and sealants market demand is witnessing a rise, in order to meet stringent safety standards, resist high-altitude UV exposure, and endure the extreme temperature fluctuations experienced during flight. The consistent investment in research and development to develop products that meet these demanding criteria has spurred innovation and expanded the product portfolio in the sector.

In the realm of applications, the defence sector, with its vast fleet of military aircraft, helicopters, and drones, presents a burgeoning demand for aerospace adhesives and sealants. The requirements here are even more stringent, with aircraft often subjected to harsher conditions and requiring materials that can withstand aggressive chemicals, high-speed stresses, and provide ballistic protection in certain scenarios.

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The rise in maintenance, repair, and overhaul (MRO) activities in the aerospace sector further accentuates the aerospace adhesives and sealants market expansion. Ageing aircraft, regular wear and tear, and the need to comply with ever-evolving aviation regulations necessitate periodic maintenance where adhesives and sealants find extensive use.

Market Segmentation

The market can be divided based on type, technology, user type, end use, and region.

Market Breakup by Type

- Adhesives

 - o□ Epoxy

 - o□ Polyurethane

 - o□ Others

- Sealants

 - o□ Polysulfide

 - o□ Silicone

 - o□ Others

Market Breakup by Technology

- Solvent-Based

- Water-Based

- Others

Market Breakup by User Type

- MRO

- OEM

Market Breakup by End Use

- Commercial

- Military

- General Aviation

Market Breakup by Region

- North America

- Europe

- Asia Pacific

- Latin America

- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the global aerospace adhesives and sealants companies. Some of the major key players explored in the report by Expert Market Research are as follows:

- 3M Company

- Henkel AG & Co. KGaA

- Huntsman International LLC

- PPG Industries, Inc.

- Solvay S.A.

- H.B. Fuller Company

- Arkema Group (Bostik SA)

- Avery Dennison Corporation

- Beacon Adhesives, Inc

- Master Bond Inc.

- Others

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