

Epoxy Curing Agent Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global epoxy curing agent market size reached US\$ 4.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.4 Billion by 2028, exhibiting a growth rate (CAGR) of 4.70% during 2022-2028. The growing need to extend the lifespan of equipment, increasing utilization to manufacture lightweight automotive components, such as carbon fiber-reinforced composites for reducing vehicle weight and improving fuel efficiency, and thriving construction industry are some of the major factors propelling the market.

Epoxy curing agents serve as essential components in the curing or hardening process. They come in various types, including amine-based, anhydride-based, and polyamide-based, each offering unique properties and applications. They facilitate the transformation of liquid epoxy resins into durable and solid materials. They act as catalysts, initiating the cross-linking of epoxy molecules to form a robust and chemically resistant structure.

At present, the thriving construction industry due to rapid urbanization and infrastructure development is propelling the growth of the market. Besides this, epoxy curing agents are crucial in electronic components and printed circuit boards (PCBs), which is strengthening the market growth. In addition, epoxy curing agents find application in automotive coatings and composites, benefiting from the continuous innovation in the automotive industry and demand for lightweight and durable materials. Moreover, wind turbine blade production and solar panel encapsulation rely on epoxy systems, creating a substantial market niche within the renewable energy sector.

Epoxy Curing Agent Market Trends/Drivers:

Increasing demand in the marine industry

Epoxy curing agents adhere exceptionally well to various substrates, including metals, fiberglass, and wood. This property ensures strong and durable bonds in boat and ship construction and repair. They are highly resistant to water, chemicals, and corrosion, which makes them ideal for protecting marine vessels from the corrosive effects of seawater and harsh marine environments. In addition, epoxy-based materials offer high tensile and compressive strength, ensuring that marine structures and components can withstand the stresses of navigation and harsh weather conditions.

Rising need to protect industrial equipment and infrastructure

Epoxy coatings provide a robust barrier against corrosion caused by exposure to harsh industrial environments, chemicals, and moisture. This protection extends the lifespan of equipment and infrastructure. They are highly resistant to a wide range of chemicals, making them ideal for facilities where exposure to corrosive substances is common, such as chemical processing plants and factories. Furthermore, epoxy curing agents offer excellent resistance to abrasion, protecting surfaces from wear and tear in industrial settings, including manufacturing floors and heavy machinery.

Growing demand for lightweight and high-strength materials

Epoxy-based composites are used in aircraft and spacecraft construction for their lightweight yet robust properties, contributing to fuel efficiency and structural integrity. Besides this, epoxy curing agents are utilized to manufacture lightweight automotive components, such as carbon fiber-reinforced composites, reducing vehicle weight and improving fuel efficiency. In addition, epoxy composites are employed in the production of lightweight, high-performance sporting equipment, including tennis rackets, golf clubs, and bicycles. They also assist in manufacturing lightweight and durable medical device components, such as prosthetics and orthopedic implants.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market report, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on product type, application, and end user.

Breakup by Product Type:

Amines
Polyamides
Anhydrides
Others

Amines dominates the market

The report has provided a detailed breakup and analysis of the market based on the product type. This includes amines, polyamides, anhydrides, and others. According to the report, amines represented the largest segment as amines are used in the production of a wide array of pharmaceuticals, from antibiotics to antidepressants, as they often serve as key building blocks in drug synthesis. They also assist in producing dyes and pigments, contributing to the vibrant colors in textiles, paints, and inks. In addition, amines are utilized in the formulation of pesticides and herbicides to protect crops from pests and weeds. They play a vital role in modern agriculture by ensuring higher yields and crop protection. They are also employed in water treatment processes to remove impurities and control pH levels. Furthermore, amines are used as accelerators and stabilizers in the vulcanization of rubber, contributing to the production of durable and high-performance rubber products.

Breakup by Application:

Composites
Paints and Coatings
Adhesives and Sealants
Electrical and Electronics
Others

Paints and coatings hold the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes composites, paints and coatings, adhesives and sealants, electrical and electronics, and others. According to the report, paints and coatings accounted for the largest market share as epoxy curing agents enhance the durability of paints and coatings. When epoxy resins cure, they form a crosslinked, highly resistant film that can withstand abrasion, chemicals, and environmental stressors, ensuring the longevity of the coating. In addition, epoxy curing agents promote excellent adhesion to a wide range of substrates, including metals, concrete, and wood. This strong bond prevents peeling, flaking, and delamination of the coating

over time.

Breakup by End User:

Building and Construction

Transportation

Wind Power

Aerospace

Marine

Others

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes building and construction, transportation, wind power, aerospace, marine, and others.

Epoxy curing agents are used in building and construction materials like lightweight concrete and advanced adhesives, reducing the overall weight of structures without compromising strength. They adhere strongly to various substrates, ensuring that the coating remains intact even in high-stress environments.

These agents are also utilized for manufacturing lightweight automotive components, such as carbon fiber-reinforced composites, reducing vehicle weight and improving fuel efficiency. They are formulated to be low in volatile organic compounds (VOCs), aligning with environmental regulations and sustainability goals.

Epoxy curing agents reinforce the structural strength of wind turbine blades, enabling them to withstand high wind loads while remaining lightweight.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest epoxy curing agent market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

The Asia Pacific region is experiencing significant industrial growth, particularly in countries like China, India, and Southeast Asian nations. This industrialization is driving the demand for epoxy-based products in various sectors. In addition, the region is a global manufacturing hub for various industries, including electronics, automotive, and consumer goods. Epoxy curing agents play a critical role in the production of lightweight, high-strength components, making them essential in manufacturing processes.

Competitive Landscape:

Key players in the market are focusing on developing innovative products to meet evolving customer needs. This includes the development of eco-friendly curing agents with lower VOC content and improved performance characteristics. Many companies are forming strategic partnerships and collaborations to expand their market reach and

enhance their product portfolios. These collaborations combine the expertise of different companies in epoxy resin and curing agent technologies. In addition, key players are working on developing greener products and adopting sustainable manufacturing processes. They are also offering customized epoxy curing agent solutions to cater to specific customer requirements across various industries.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Aditya Birla Management Corporation Pvt. Ltd.

Atul Ltd.

BASF SE

Cardolite Corporation

Cargill Incorporated

Evonik Industries AG

Hexion Inc.

Huntsman Corporation

Kukdo Chemical Co. Ltd.

Mitsubishi Chemical Holdings Corporation

Olin Corporation

Toray Industries Inc.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Recent Developments:

In 2022, BASF SE increased the production capacity for key specialty amines manufactured at its Geismar, Louisiana site. These amines are utilized as highly efficient curing agents and chain extenders in epoxy and polyurea applications for the wind, electrical, composites, adhesives and flooring industries.

In Jan 2021, Huntsman Corporation announced that it completed the acquisition of Gabriel Performance Products (Gabriel), a North American specialty chemical manufacturer of specialty additives and epoxy curing agents for the coatings, adhesives, sealants and composite end-markets, from Audax Private Equity.

In Sep 2023, Aditya Birla Management Corporation Pvt. Ltd launched its paints business under the brand name 'Birla Opus'. It offered a full suite of high-quality products in the decorative paints segment.

Key Questions Answered in This Report

1. How big is the global epoxy curing agent market?
2. What is the expected growth rate of the global epoxy curing agent market during 2023-2028?
3. What are the key factors driving the global epoxy curing agent market?
4. What has been the impact of COVID-19 on the global epoxy curing agent market?
5. What is the breakup of the global epoxy curing agent market based on the product type?
6. What is the breakup of the global epoxy curing agent market based on the application?
7. What are the key regions in the global epoxy curing agent market?
8. Who are the key players/companies in the global epoxy curing agent market?

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