

# **Construction Composites Market By Resin Type (Polyester, Vinyl Ester, Polyethylene, Polypropylene, Epoxy, Others) , By Fiber Type (Carbon Fiber, Glass Fiber, Natural Fiber, Others) By Application (Residential, Commercial, Industrial) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

### Construction Composites Market

The construction composites market was valued at \$21.8 billion in 2023 and is projected to reach \$36.7 billion by 2033, growing at a CAGR of 5.3% from 2024 to 2033.

A construction composite is a material with eminent attributes formed by combining two or more elements with distinguished chemical and physical properties. It consists of a matrix that acts as a base material and a reinforcement substance to enhance the properties. The key benefits of using composites in the construction industry are their lightweight nature, durability, high strength, and resistance to various environmental factors. Different types of construction composites include fiber-reinforced, wood, concrete, advanced polymers, and metal matrix.

The lightweight property & high strength-to-weight ratio of construction composites are the major drivers of the market as these attributes fuel their requirement in bridges and high-rise buildings. Furthermore, increase in ongoing infrastructural projects due to rapid surge in urbanization has elevated the need for construction composites, augmenting the market growth significantly. An emerging trend projected to gain prominence in the coming years is the development of recyclable composites to

promote a circular economy. These construction composites are designed with structures that are easy to disassemble, enabling efficient recovery of constituent materials during the end of the product life cycle.

However, as the awareness regarding the usage and benefits of construction composites is confined, their demand remains limited, hampering the development of the market. Moreover, the enhancement of conventional materials such as treated steel and ultra-high-performance concrete presents stringent competition to construction composites, restraining the market growth notably. On the contrary, the development of bio-composites with biodegradable matrices and high-strength natural fibers is poised to present remunerative opportunities for the market owing to rise in adoption of eco-friendly materials & practices in the construction industry. The 2023 Global Status Report for Buildings and Construction by the UN Environment Programme states that in 2022 buildings were responsible for approximately 34% of global energy demand and 37% of carbon emissions. As an effort to reduce these figures, the adoption of construction composites is projected to witness a considerable surge.

## Segment Review

The construction composites market is segmented into resin type, fiber type, application, and region. On the basis of resin type, the market is divided into polyester, vinyl ester, polyethylene, polypropylene, epoxy, and others. Depending on fiber type, it is classified into carbon fiber, glass fiber, natural fiber, and others. As per application, it is categorized into residential, commercial, and industrial. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of resin type, the polyester segment is expected to dominate the market during the forecast period.

Depending on fiber type, the carbon fiber segment is projected to acquire a high stake in the market by 2033.

As per application, the commercial segment is anticipated to hold a high share of the market throughout the forecast period.

Region wise, Asia-Pacific is predicted to be the highest revenue generator by 2033.

## Competition Analysis

The major players in the global construction composites market include Azuria, Exel Composites, Gurit Services AG, Hexcel Corporation, Kordsa, TORAY INDUSTRIES, INC., Mitsubishi Chemical Group Corporation, NIPPON STEEL CORPORATION, Owens Corning, SGL Carbon, and Teijin Limited. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

Capital Investment breakdown

Industry life cycle assessment, by region

Product Benchmarking / Product specification and applications

Product Life Cycles

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Upcoming/New Entrant by Regions

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Additional country or region analysis- market size and forecast

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Criss-cross segment analysis- market size and forecast

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SWOT Analysis

Volume Market Size and Forecast

## Key Market Segments

### By Resin Type

Polyester

Vinyl Ester

Polyethylene

Polypropylene

Epoxy

Others

### By Fiber Type

Carbon Fiber

Glass Fiber

Natural Fiber

Others

## By Application

Residential

Commercial

Industrial

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Azuria

Exel Composites

Gurit Services AG

Hexcel Corporation

Kordsa

TORAY INDUSTRIES, INC.

Mitsubishi Chemical Group Corporation

NIPPON STEEL CORPORATION

Owens Corning

SGL Carbon

Teijin Limited

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