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Construction Polymers Market Forecasts to 2030 – Global Analysis By Polymer Type (Thermosetting Plastic, Thermoplastic and Other Polymer Types), Construction Activity (New Construction and Renovation), Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Construction Polymers Market is accounted for $156.42 billion in 2024 and is expected to reach $241.40 billion by 2030 growing at a CAGR of 7.5% during the forecast period. Construction polymers are multipurpose materials that are frequently used in the building and construction sector to improve the effectiveness, longevity, and performance of structures. Construction polymers are well-known for being lightweight, having a high tensile strength, and being resistant to chemicals and environmental conditions. These properties help to improve energy efficiency and lower maintenance costs.

According to the European Chemical Industry Council (CEFIC), the construction sector is one of the largest consumers of polymers, accounting for approximately 20% of the total polymer consumption in Europe. CEFIC highlights that the use of polymers in construction applications, such as insulation and piping, contributes to energy efficiency and sustainability.

Market Dynamics:

Driver:

Growing interest in eco-friendly materials

There is pressure on the construction sector to implement sustainable practices in order

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to lessen its negative effects on the environment. Construction polymers are becoming more and more popular because they can lessen reliance on non-renewable resources, particularly bio-based and recyclable varieties. LEED (Leadership in Energy and Environmental Design) and BREEAM (Building Research Establishment Environmental Assessment Method) are two green building certifications that can be obtained with the aid of these resources. Moreover, the adoption of construction polymers is also being fueled by governments and organizations that promote the use of sustainable materials through tax breaks and subsidies.

Restraint:

Price volatility for raw materials

Construction polymers are mostly made from petrochemical products like natural gas and crude oil, and their production costs are greatly affected by the volatility of these raw materials. Some of the factors that contribute to this volatility include supply chain disruptions, geopolitical tensions, and changes in global demand-supply dynamics; for instance, the 2022 conflict between Russia and Ukraine caused energy and raw material prices to rise, which affected a number of industries, including construction polymers. Additionally, the volatility of raw material prices makes it difficult for manufacturers to maintain stable pricing, which can discourage potential buyers from using these materials on a large scale.

Opportunity:

Growing interest in sustainable and green building materials

Sustainable practices and materials are becoming more and more important in the construction industry as global efforts to combat climate change intensify. Bio-based and recyclable building polymers have a big chance owing to this trend. Environmentally friendly materials, like bioplastics derived from renewable resources like corn starch and sugarcane, have been made possible by advancements in polymer chemistry. Furthermore, green building certification programs like LEED and BREEAM, which emphasize the use of sustainable materials, are being introduced by governments and organizations.

Threat:

Technological developments in the building sector

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While some polymers are used in 3D printing and modular construction, new materials like graphene-based composites and smart materials with self-healing properties could potentially replace polymers in some applications. For instance, graphene-enhanced cement offers superior strength and durability, challenging polymer-modified materials in infrastructure projects. The traditional use of construction polymers is under threat from rapid advancements in construction technologies, such as 3D printing, prefabrication, and nanotechnology. Moreover, businesses that do not adjust to these technological disruptions risk losing their competitive advantage.

Covid-19 Impact:

The market for construction polymers was significantly impacted by the COVID-19 pandemic, mainly because of the extensive disruptions in construction activities brought on by supply chain interruptions, labor shortages, and lockdowns. The need for construction polymers like adhesives, sealants, and insulation materials temporarily decreased as a result of the postponement or cancellation of numerous real estate and infrastructure projects. Furthermore, production and distribution problems for polymer manufacturers were made worse by shifting raw material prices and logistical difficulties. This was due to a number of factors, including the resumption of construction activities, increased government investments in infrastructure projects, and a growing emphasis on sustainable and energy-efficient materials in post-pandemic building strategies.

The Pipes & Fittings segment is expected to be the largest during the forecast period

The Pipes & Fittings segment is anticipated to hold the largest share in the Construction Polymers Market over the course of the estimation period. This section covers a range of polymer-based materials used in drainage, water supply, and plumbing systems. This segment uses polyvinyl chloride (PVC), polypropylene (PP), and polyethylene (PE) as key materials because of their cost-effectiveness, corrosion resistance, durability, and ease of installation. Because of their long lifespan and minimal maintenance needs, these polymers are widely used in both residential and commercial construction projects. Moreover, this segment is growing as a result of the growing need for sustainable and effective infrastructure.

The Housing Real Estate Construction segment is expected to have the highest CAGR during the forecast period

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In the construction polymers market, the housing real estate construction segment is anticipated to grow at the highest CAGR. The construction of residential structures, such as apartment complexes, single-family homes, and multi-family units, is included in the Housing Real Estate Construction segment. Additionally, the need for materials that provide flexibility, durability, and resistance to environmental factors is what drives the demand for construction polymers in this market. Because of their affordability and performance qualities, polymers like polyvinyl chloride (PVC) are frequently utilized in applications like window frames, roofing materials, and piping systems.

Region with largest share:

With the United States as the main contributor, the North American region is expected to hold the largest share of the construction polymers market. An established construction industry, rising demand for environmentally friendly building materials, and developments in polymer manufacturing technology are the main drivers of this region. The rising use of polymers in infrastructure, commercial, and residential projects—for flooring, insulation, and roofing—supports the expansion of the North American market. Furthermore, the need for high-performance construction polymers is also being fueled by the growing popularity of green building techniques and energy-efficient building solutions.

Region with highest CAGR:

During the forecast period, the construction polymers market is expected to grow at the highest CAGR in the Asia Pacific region. This strong expansion is fueled by rising urbanization, fast infrastructure development, and a growing need for environmentally friendly building materials in nations like South Korea, China, and India. Moreover, the worldwide need for construction polymers, such as polyvinyl chloride (PVC), polyethylene (PE), and polypropylene (PP), which are extensively utilized in roofing, flooring, waterproofing, and insulation, is greatly influenced by the region's growing construction sector.

Key players in the market

Some of the key players in Construction Polymers market include Avient Corporation, Covestro, 3M Company, E.I Dupont De Nemours and Company, Formosa Plastics Corp, BASF SE, Solvay S.A., H.B. Fuller Company, Evonik Industries AG, Arkema S.A., SCG Chemicals Co., Ltd., Exxon Mobil Corporation, Croda International Plc, Reliance Industries Limited and Henkel AG & Co. KGaA.

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Key Developments:

In November 2024, High-performance polymer manufacturer Covestro (India) Private Limited has entered into a long-term power purchase agreement (PPA) with Amplus Solar Shakti Private Limited to significantly reduce its carbon footprint while enhancing operational efficiency. Under the terms of the 25-year agreement with Amplus Solar Shakti Private Limited, a subsidiary of Amplus Energy Solutions PTE Ltd, Singapore, Covestro (India) will leverage solar power to fulfil 60% of its annual energy requirements at the Greater Noida facility.

In July 2024, BASF and ENGIE signed a 7-year Biomethane Purchase Agreement (BPA). Under the BPA, ENGIE will supply BASF with 2.7 to 3.0 terawatt hours of biomethane throughout the term of the agreement. BASF uses certified biomethane at its Ludwigshafen/Germany and Antwerp/Belgium sites as a sustainable alternative to fossil raw materials in its manufacturing process.

In March 2024, 3M and HD Hyundai Korea Shipbuilding & Marine Engineering (KSOE) have signed a joint research project agreement to develop large liquid hydrogen storage tanks using Glass Bubbles from 3M – a high-strength, low-density hollow glass microsphere. The collaborative research will focus on developing a high-performance vacuum insulation system for liquified hydrogen storage and transportation.

Polymer Types Covered:

- Thermosetting Plastic
- Thermoplastic
- Other Polymer Types

Construction Activities Covered:

- New Construction
- Renovation

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Applications Covered:

- Walls
- Floorings
- Pipes & Fittings
- Windows
- Roofs
- Insulation and Sliding
- Glazing
- Cladding
- Plastic Wraps
- Other Applications

End Users Covered:

- Commercial Real Estate Construction
- Housing Real Estate Construction
- Industrial Construction
- Facility Infrastructure
- Transportation Infrastructure
- Utility Infrastructure
- Other End Users

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
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- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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