

Resin Capsules Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Resin Type (Polyester, Acrylic, Epoxy and others), By Catalyst Type (Organic Peroxides, Water-Based and Oil-Based), By Diameter (Up to 20 mm, 21-30 mm, 31-40 mm above 40 mm), By End-Use Industry (Mining, Manufacturing, Construction and Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/R01DD88FC280EN.html>

Date: January 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: R01DD88FC280EN

Abstracts

The Global Resin Capsules Market is projected to expand from USD 1.52 billion in 2025 to USD 2.13 billion by 2031, registering a CAGR of 5.78%. These capsules serve as advanced two-component chemical anchoring systems, containing a catalyst and resin within a sealed plastic or glass tube, and are primarily utilized to fix rock bolts for ground stabilization in tunneling and mining activities. Market expansion is chiefly propelled by the increasing need for reliable strata control in deep underground excavations, coupled with the strict implementation of occupational safety standards throughout the global extraction sector. Furthermore, significant financial investment in civil infrastructure, particularly for subterranean transport networks and hydropower tunnels, provides a solid structural basis for industry growth.

Even with a favorable demand outlook, the sector encounters a major hurdle in the form of volatile raw material prices, especially for epoxy and polyester resins, which can unpredictably affect production costs and profit margins. This financial strain exists concurrently with ongoing requirements from heavy industrial sectors. As reported by the International Energy Agency, global coal demand was expected to hit roughly 8.74 billion tonnes in 2024, signaling a sustained and massive volume of mining operations

that requires steady supplies of rock reinforcement solutions.

Market Driver

The primary catalyst for the resin capsules industry is the broadening scope of underground excavation and mining operations. As companies exploit deeper mineral reserves, geological pressures escalate, requiring superior rock reinforcement to avert tunnel collapses. In these harsh settings, resin capsules deliver vital immediate load-bearing capabilities and resistance to corrosion. The rising volume of extraction underscores this demand; for instance, the Ministry of Coal's 'Monthly Summary for the Cabinet' in April 2024 noted that India's combined lignite and coal production surpassed 1 billion tonnes during the 2023-24 fiscal year. This heightened activity is backed by substantial investments from major industry players, such as BHP, which reported USD 9.3 billion in capital and exploration spending in 2024, securing the ongoing expansion of large-scale projects that utilize these safety products.

Concurrently, the civil construction sector is driving market growth through an increase in tunneling initiatives for hydroelectric power and transit systems. Rapid urbanization is forcing governments to build underground transport networks and energy tunnels, where resin capsules are essential for securing machinery and liners. These infrastructure projects offer a consistent revenue source that differs from the cyclical nature of mining. This trend is confirmed by Webuild S.p.A., which announced in its 'FY 2023 Results Presentation' in March 2024 a record order backlog of EUR 64 billion, fueled primarily by intricate hydroelectric and underground rail undertakings. Such a vast pipeline of heavy civil engineering works highlights the enduring dependence on chemical anchoring systems to ensure structural stability outside the mining sector.

Market Challenge

A major obstacle impeding the expansion of the Global Resin Capsules Market is the considerable volatility in the costs of raw materials, particularly epoxy and polyester resins. These critical chemical ingredients are sourced from petrochemical feedstocks, rendering their prices highly susceptible to variations in the global natural gas and crude oil markets. Resin capsule manufacturers usually work with narrow profit margins and adhere to long-term agreements with infrastructure and mining clients. Consequently, sudden spikes in upstream commodity prices create a challenging financial landscape where production costs exceed revenue forecasts, leading to significant margin compression and complicating the maintenance of stable pricing strategies.

The unpredictability of input costs generates significant uncertainty for producers, frequently compelling them to postpone capacity growth or incur financial losses. Recent industrial data on chemical feedstocks illustrates the severity of this pressure. For example, the Verband der Chemischen Industrie (VCI) reported that in the second quarter of 2024, the average price of naphtha—a vital precursor for synthetic resin manufacturing—reached approximately 620 euros per tonne, marking a 10 percent rise from the prior year. Such inconsistent expenditure fluctuations directly threaten the financial security needed for reliable supply chains and sustained market development.

Market Trends

The market is being aggressively transformed by the combination of resin capsules with automated rock bolting systems, which replace dangerous manual processes with fully mechanized operations. Mining companies are increasingly utilizing autonomous rigs to accurately inject resin and place bolts, thereby drastically shortening cycle times and removing operators from precarious ground conditions. This technological evolution is supported by significant investments in advanced machinery tailored for mechanized chemical anchoring. For instance, Sandvik AB announced in a July 2024 press release, 'Sandvik wins major order for underground mining equipment in Portugal', that it had won a contract worth around SEK 340 million which included DS411 rock bolters, verifying the strong industrial appetite for automated strata reinforcement technologies.

At the same time, the sector is experiencing a clear move towards environmentally friendly resin formulas, propelled by strict environmental, social, and governance (ESG) requirements. Manufacturers are re-engineering chemical anchors to reduce volatile organic compounds and decrease the carbon footprint of underground consumables, in line with the net-zero goals of major extraction firms. The shift towards sustainable chemical components is evidenced by the rapid decarbonization achievements of key suppliers. As stated in Orica Limited's 'Annual Report 2024' from November 2024, the company accomplished a 43 percent decrease in global net Scope 1 and 2 greenhouse gas emissions compared to its 2019 baseline, demonstrating the industry-wide drive to implement greener supply chains and low-impact technologies.

Key Market Players

Dywidag-Systems International

Sika AG

Bohle AG

Fosroc

Kunal Conchem

Multifix

Laxmi Industries

Hexion Inc.

Orica Limited

Barnes Group Inc.

Report Scope

In this report, the Global Resin Capsules Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Resin Capsules Market, By Resin Type

Polyester

Acrylic

Epoxy

others

Resin Capsules Market, By Catalyst Type

Organic Peroxides

Water-Based

Oil-Based

Resin Capsules Market, By Diameter

Up to 20 mm

21-30 mm

31-40 mm above 40 mm

Resin Capsules Market, By End-Use Industry

Mining

Manufacturing

Construction

Others

Resin Capsules Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Resin Capsules Market.

Available Customizations:

Global Resin Capsules Market report with the given market data, TechSci Research

Resin Capsules Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Resin Typ...

offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL RESIN CAPSULES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Resin Type (Polyester, Acrylic, Epoxy, others)
 - 5.2.2. By Catalyst Type (Organic Peroxides, Water-Based, Oil-Based)
 - 5.2.3. By Diameter (Up to 20 mm, 21-30 mm, 31-40 mm above 40 mm)
 - 5.2.4. By End-Use Industry (Mining, Manufacturing, Construction, Others)

- 5.2.5. By Region
- 5.2.6. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA RESIN CAPSULES MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Resin Type
 - 6.2.2. By Catalyst Type
 - 6.2.3. By Diameter
 - 6.2.4. By End-Use Industry
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Resin Capsules Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Resin Type
 - 6.3.1.2.2. By Catalyst Type
 - 6.3.1.2.3. By Diameter
 - 6.3.1.2.4. By End-Use Industry
 - 6.3.2. Canada Resin Capsules Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Resin Type
 - 6.3.2.2.2. By Catalyst Type
 - 6.3.2.2.3. By Diameter
 - 6.3.2.2.4. By End-Use Industry
 - 6.3.3. Mexico Resin Capsules Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Resin Type
 - 6.3.3.2.2. By Catalyst Type
 - 6.3.3.2.3. By Diameter
 - 6.3.3.2.4. By End-Use Industry

7. EUROPE RESIN CAPSULES MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Resin Type

7.2.2. By Catalyst Type

7.2.3. By Diameter

7.2.4. By End-Use Industry

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Resin Capsules Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Resin Type

7.3.1.2.2. By Catalyst Type

7.3.1.2.3. By Diameter

7.3.1.2.4. By End-Use Industry

7.3.2. France Resin Capsules Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Resin Type

7.3.2.2.2. By Catalyst Type

7.3.2.2.3. By Diameter

7.3.2.2.4. By End-Use Industry

7.3.3. United Kingdom Resin Capsules Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Resin Type

7.3.3.2.2. By Catalyst Type

7.3.3.2.3. By Diameter

7.3.3.2.4. By End-Use Industry

7.3.4. Italy Resin Capsules Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Resin Type
 - 7.3.4.2.2. By Catalyst Type
 - 7.3.4.2.3. By Diameter
 - 7.3.4.2.4. By End-Use Industry
- 7.3.5. Spain Resin Capsules Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Resin Type
 - 7.3.5.2.2. By Catalyst Type
 - 7.3.5.2.3. By Diameter
 - 7.3.5.2.4. By End-Use Industry

8. ASIA PACIFIC RESIN CAPSULES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Resin Type
 - 8.2.2. By Catalyst Type
 - 8.2.3. By Diameter
 - 8.2.4. By End-Use Industry
 - 8.2.5. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Resin Capsules Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Resin Type
 - 8.3.1.2.2. By Catalyst Type
 - 8.3.1.2.3. By Diameter
 - 8.3.1.2.4. By End-Use Industry
 - 8.3.2. India Resin Capsules Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Resin Type
 - 8.3.2.2.2. By Catalyst Type

- 8.3.2.2.3. By Diameter
- 8.3.2.2.4. By End-Use Industry
- 8.3.3. Japan Resin Capsules Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Resin Type
 - 8.3.3.2.2. By Catalyst Type
 - 8.3.3.2.3. By Diameter
 - 8.3.3.2.4. By End-Use Industry
- 8.3.4. South Korea Resin Capsules Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Resin Type
 - 8.3.4.2.2. By Catalyst Type
 - 8.3.4.2.3. By Diameter
 - 8.3.4.2.4. By End-Use Industry
- 8.3.5. Australia Resin Capsules Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Resin Type
 - 8.3.5.2.2. By Catalyst Type
 - 8.3.5.2.3. By Diameter
 - 8.3.5.2.4. By End-Use Industry

9. MIDDLE EAST & AFRICA RESIN CAPSULES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Resin Type
 - 9.2.2. By Catalyst Type
 - 9.2.3. By Diameter
 - 9.2.4. By End-Use Industry
 - 9.2.5. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Resin Capsules Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Resin Type
 - 9.3.1.2.2. By Catalyst Type
 - 9.3.1.2.3. By Diameter
 - 9.3.1.2.4. By End-Use Industry
- 9.3.2. UAE Resin Capsules Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Resin Type
 - 9.3.2.2.2. By Catalyst Type
 - 9.3.2.2.3. By Diameter
 - 9.3.2.2.4. By End-Use Industry
- 9.3.3. South Africa Resin Capsules Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Resin Type
 - 9.3.3.2.2. By Catalyst Type
 - 9.3.3.2.3. By Diameter
 - 9.3.3.2.4. By End-Use Industry

10. SOUTH AMERICA RESIN CAPSULES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Resin Type
 - 10.2.2. By Catalyst Type
 - 10.2.3. By Diameter
 - 10.2.4. By End-Use Industry
 - 10.2.5. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Resin Capsules Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Resin Type
- 10.3.1.2.2. By Catalyst Type
- 10.3.1.2.3. By Diameter
- 10.3.1.2.4. By End-Use Industry
- 10.3.2. Colombia Resin Capsules Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Resin Type
 - 10.3.2.2.2. By Catalyst Type
 - 10.3.2.2.3. By Diameter
 - 10.3.2.2.4. By End-Use Industry
- 10.3.3. Argentina Resin Capsules Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Resin Type
 - 10.3.3.2.2. By Catalyst Type
 - 10.3.3.2.3. By Diameter
 - 10.3.3.2.4. By End-Use Industry

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL RESIN CAPSULES MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers

- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Dywidag-Systems International
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Sika AG
- 15.3. Bohle AG
- 15.4. Fosroc
- 15.5. Kunal Conchem
- 15.6. Multifix
- 15.7. Laxmi Industries
- 15.8. Hexion Inc.
- 15.9. Orica Limited
- 15.10. Barnes Group Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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