

Global Microalgae-based Bio-cement Market Growth 2026-2032

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Abstracts

The global Microalgae-based Bio-cement market size is predicted to grow from US\$ 73.37 million in 2025 to US\$ 120 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

Microalgae-based bio-cement is an innovative, environmentally friendly construction material characterized by low carbon emissions, high sustainability, and multifunctional material properties. The research scope encompasses industrial products in which carbon dioxide is captured and converted by microalgae through photosynthesis or carbon fixation, then incorporated into cement or concrete matrices. Primary product forms include powdered or granular cementitious material, pre-mixed microalgae cement paste, modular bio-cement bricks, and prefabricated components ready for construction use. The production process involves microalgae cultivation, carbon sequestration, drying and pulverization, blending with conventional cement materials, molding, and curing, with photosynthetic efficiency, carbon capture rate, and final compressive strength serving as key technical specifications. Core functions of microalgae bio-cement include carbon sequestration, enhanced material durability, improved thermal insulation, and ecological compatibility in certain applications. Major applications span green building projects, low-carbon infrastructure construction, ecological restoration projects, and the development of functional specialty materials, with gradual adoption in high-end commercial and residential constructions as a sustainable alternative.

The microalgae-based bio-cement industry represents an innovative sub-sector within the low-carbon, sustainable construction materials field, with core value derived from carbon reduction and environmental sustainability in building applications. According to our research, global supply remains dominated by a few experimental and

demonstration-scale producers. Technical approaches vary, including photosynthetic microalgae cultivation, carbon sequestration, and integration with cement matrices. Industry stratification is evident: core formal manufacturers lead demonstration and high-end applications, extended suppliers provide material supply and pilot products, while long-tail enterprises mainly focus on R&D or regional OEM. From a global supply perspective, North America and Europe lead in microalgae cultivation and carbon fixation technology, China is experiencing rapid growth driven by policy incentives, and Japan and South Korea operate small-scale high-end demonstration projects. The supply structure limits the market's initial scale and imposes technical and cost barriers, resulting in a relatively small early-stage market. Demand primarily originates from green construction, low-carbon infrastructure, and ecological restoration projects, with future growth concentrated in regions with strong policy support and rising building standards. Technological evolution is focused on key indicators such as carbon capture rate, material mechanical performance, and scalability of production processes. Potential breakthroughs could improve photosynthetic efficiency, reduce unit costs, and enable standardized, large-scale applications. In terms of product pathways, modular prefabricated components and powdered cement blends are the main commercial directions. Investment and capacity expansion activities indicate that enterprises are collaborating with construction companies to implement demonstration projects. Policy and regulatory frameworks significantly influence industry development. European carbon neutrality policies, North American green building incentives, and China's 'dual carbon' strategy provide strong support. Meanwhile, investor interest in environmentally friendly materials has boosted R&D and expansion efforts. While market scale remains limited, growth is expected to maintain a steady CAGR of approximately 7-8%. Substitution risks exist from lower-cost traditional cement or alternative materials, yet microalgae bio-cement maintains differentiated advantages in high-end green buildings and specialized functional applications. Industry outlook suggests that microalgae-based bio-cement is an emerging growth market, with limited short-term scale but clear expansion potential. Supply-side improvements are necessary to optimize production costs and efficiency, while demand growth is driven by policy and building standards. Stratification between core formal manufacturers and extended suppliers results in low market concentration and numerous long-tail enterprises, yet the overall ecosystem is sufficiently complete to support future large-scale deployment.

LP Information, Inc. (LPI)'s newest research report, the 'Microalgae-based Bio-cement Industry Forecast' looks at past sales and reviews total world Microalgae-based Bio-cement sales in 2025, providing a comprehensive analysis by region and market sector of projected Microalgae-based Bio-cement sales for 2026 through 2032. With

Microalgae-based Bio-cement sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microalgae-based Bio-cement industry.

This Insight Report provides a comprehensive analysis of the global Microalgae-based Bio-cement landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Microalgae-based Bio-cement portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microalgae-based Bio-cement market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microalgae-based Bio-cement and breaks down the forecast by Form, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Microalgae-based Bio-cement.

This report presents a comprehensive overview, market shares, and growth opportunities of Microalgae-based Bio-cement market by product type, application, key manufacturers and key regions and countries.

Segmentation by Form:

Bio-Cement Powder

Bio-Concrete Masonry Unit

Bio-Mortar

Others

Segmentation by Technology:

Direct Carbon Fixation

Bio-assisted Cementation

Carbon Capture Integration

Others

Segmentation by CO₂ Sequestration Capacity:

Cyanobacteria Based

Green Algae Based

Diatom Based

Mixed Algae Composite

Others

Segmentation by Application:

Green Building

Infrastructure

Ecological Restoration

Functional Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Prometheus Materials Inc.

Ciments du Maroc

CarbonCure Technologies Inc.

Blue Planet Ltd.

Algaecraft Biocement

Biomason Inc.

Solidia Technologies

GreenAlgae Materials

Algatech Cement Solutions

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microalgae-based Bio-cement market?

What factors are driving Microalgae-based Bio-cement market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microalgae-based Bio-cement market opportunities vary by end market size?

How does Microalgae-based Bio-cement break out by Form, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Microalgae-based Bio-cement Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Microalgae-based Bio-cement by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Microalgae-based Bio-cement by Country/Region, 2021, 2025 & 2032
- 2.2 Microalgae-based Bio-cement Segment by Form
 - 2.2.1 Bio-Cement Powder
 - 2.2.2 Bio-Concrete Masonry Unit
 - 2.2.3 Bio-Mortar
 - 2.2.4 Others
 - 2.2.5 Microalgae-based Bio-cement Sales by Form
 - 2.2.5.1 Global Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)
 - 2.2.5.2 Global Microalgae-based Bio-cement Revenue and Market Share by Form (2021-2026)
 - 2.2.5.3 Global Microalgae-based Bio-cement Sale Price by Form (2021-2026)
- 2.3 Microalgae-based Bio-cement Segment by Technology
 - 2.3.1 Direct Carbon Fixation
 - 2.3.2 Bio-assisted Cementation
 - 2.3.3 Carbon Capture Integration
 - 2.3.4 Others
 - 2.3.5 Microalgae-based Bio-cement Sales by Technology
 - 2.3.5.1 Global Microalgae-based Bio-cement Sales Market Share by Technology

(2021-2026)

2.3.5.2 Global Microalgae-based Bio-cement Revenue and Market Share by Technology (2021-2026)

2.3.5.3 Global Microalgae-based Bio-cement Sale Price by Technology (2021-2026)

2.4 Microalgae-based Bio-cement Segment by CO₂ Sequestration Capacity

2.4.1 Cyanobacteria Based

2.4.2 Green Algae Based

2.4.3 Diatom Based

2.4.4 Mixed Algae Composite

2.4.5 Others

2.4.6 Microalgae-based Bio-cement Sales by CO₂ Sequestration Capacity

2.4.6.1 Global Microalgae-based Bio-cement Sales Market Share by CO₂ Sequestration Capacity (2021-2026)

2.4.6.2 Global Microalgae-based Bio-cement Revenue and Market Share by CO₂ Sequestration Capacity (2021-2026)

2.4.6.3 Global Microalgae-based Bio-cement Sale Price by CO₂ Sequestration Capacity (2021-2026)

2.5 Microalgae-based Bio-cement Segment by Application

2.5.1 Green Building

2.5.2 Infrastructure

2.5.3 Ecological Restoration

2.5.4 Functional Materials

2.5.5 Others

2.5.6 Microalgae-based Bio-cement Sales by Application

2.5.6.1 Global Microalgae-based Bio-cement Sale Market Share by Application (2021-2026)

2.5.6.2 Global Microalgae-based Bio-cement Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Microalgae-based Bio-cement Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Microalgae-based Bio-cement Breakdown Data by Company

3.1.1 Global Microalgae-based Bio-cement Annual Sales by Company (2021-2026)

3.1.2 Global Microalgae-based Bio-cement Sales Market Share by Company (2021-2026)

3.2 Global Microalgae-based Bio-cement Annual Revenue by Company (2021-2026)

3.2.1 Global Microalgae-based Bio-cement Revenue by Company (2021-2026)

3.2.2 Global Microalgae-based Bio-cement Revenue Market Share by Company

(2021-2026)

3.3 Global Microalgae-based Bio-cement Sale Price by Company

3.4 Key Manufacturers Microalgae-based Bio-cement Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Microalgae-based Bio-cement Product Location Distribution

3.4.2 Players Microalgae-based Bio-cement Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MICROALGAE-BASED BIO-CEMENT BY GEOGRAPHIC REGION

4.1 World Historic Microalgae-based Bio-cement Market Size by Geographic Region (2021-2026)

4.1.1 Global Microalgae-based Bio-cement Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Microalgae-based Bio-cement Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Microalgae-based Bio-cement Market Size by Country/Region (2021-2026)

4.2.1 Global Microalgae-based Bio-cement Annual Sales by Country/Region (2021-2026)

4.2.2 Global Microalgae-based Bio-cement Annual Revenue by Country/Region (2021-2026)

4.3 Americas Microalgae-based Bio-cement Sales Growth

4.4 APAC Microalgae-based Bio-cement Sales Growth

4.5 Europe Microalgae-based Bio-cement Sales Growth

4.6 Middle East & Africa Microalgae-based Bio-cement Sales Growth

5 AMERICAS

5.1 Americas Microalgae-based Bio-cement Sales by Country

5.1.1 Americas Microalgae-based Bio-cement Sales by Country (2021-2026)

5.1.2 Americas Microalgae-based Bio-cement Revenue by Country (2021-2026)

5.2 Americas Microalgae-based Bio-cement Sales by Form (2021-2026)

5.3 Americas Microalgae-based Bio-cement Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Microalgae-based Bio-cement Sales by Region

6.1.1 APAC Microalgae-based Bio-cement Sales by Region (2021-2026)

6.1.2 APAC Microalgae-based Bio-cement Revenue by Region (2021-2026)

6.2 APAC Microalgae-based Bio-cement Sales by Form (2021-2026)

6.3 APAC Microalgae-based Bio-cement Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Microalgae-based Bio-cement by Country

7.1.1 Europe Microalgae-based Bio-cement Sales by Country (2021-2026)

7.1.2 Europe Microalgae-based Bio-cement Revenue by Country (2021-2026)

7.2 Europe Microalgae-based Bio-cement Sales by Form (2021-2026)

7.3 Europe Microalgae-based Bio-cement Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Microalgae-based Bio-cement by Country

8.1.1 Middle East & Africa Microalgae-based Bio-cement Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Microalgae-based Bio-cement Revenue by Country

(2021-2026)

8.2 Middle East & Africa Microalgae-based Bio-cement Sales by Form (2021-2026)

8.3 Middle East & Africa Microalgae-based Bio-cement Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Microalgae-based Bio-cement

10.3 Manufacturing Process Analysis of Microalgae-based Bio-cement

10.4 Industry Chain Structure of Microalgae-based Bio-cement

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Microalgae-based Bio-cement Distributors

11.3 Microalgae-based Bio-cement Customer

12 WORLD FORECAST REVIEW FOR MICROALGAE-BASED BIO-CEMENT BY GEOGRAPHIC REGION

12.1 Global Microalgae-based Bio-cement Market Size Forecast by Region

12.1.1 Global Microalgae-based Bio-cement Forecast by Region (2027-2032)

12.1.2 Global Microalgae-based Bio-cement Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Microalgae-based Bio-cement Forecast by Form (2027-2032)
- 12.7 Global Microalgae-based Bio-cement Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Prometheus Materials Inc.

- 13.1.1 Prometheus Materials Inc. Company Information
- 13.1.2 Prometheus Materials Inc. Microalgae-based Bio-cement Product Portfolios and Specifications
- 13.1.3 Prometheus Materials Inc. Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Prometheus Materials Inc. Main Business Overview
- 13.1.5 Prometheus Materials Inc. Latest Developments

13.2 Ciments du Maroc

- 13.2.1 Ciments du Maroc Company Information
- 13.2.2 Ciments du Maroc Microalgae-based Bio-cement Product Portfolios and Specifications
- 13.2.3 Ciments du Maroc Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Ciments du Maroc Main Business Overview
- 13.2.5 Ciments du Maroc Latest Developments

13.3 CarbonCure Technologies Inc.

- 13.3.1 CarbonCure Technologies Inc. Company Information
- 13.3.2 CarbonCure Technologies Inc. Microalgae-based Bio-cement Product Portfolios and Specifications
- 13.3.3 CarbonCure Technologies Inc. Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 CarbonCure Technologies Inc. Main Business Overview
- 13.3.5 CarbonCure Technologies Inc. Latest Developments

13.4 Blue Planet Ltd.

- 13.4.1 Blue Planet Ltd. Company Information
- 13.4.2 Blue Planet Ltd. Microalgae-based Bio-cement Product Portfolios and Specifications
- 13.4.3 Blue Planet Ltd. Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Blue Planet Ltd. Main Business Overview

- 13.4.5 Blue Planet Ltd. Latest Developments
- 13.5 Algaecraft Biocement
 - 13.5.1 Algaecraft Biocement Company Information
 - 13.5.2 Algaecraft Biocement Microalgae-based Bio-cement Product Portfolios and Specifications
 - 13.5.3 Algaecraft Biocement Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Algaecraft Biocement Main Business Overview
 - 13.5.5 Algaecraft Biocement Latest Developments
- 13.6 Biomason Inc.
 - 13.6.1 Biomason Inc. Company Information
 - 13.6.2 Biomason Inc. Microalgae-based Bio-cement Product Portfolios and Specifications
 - 13.6.3 Biomason Inc. Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Biomason Inc. Main Business Overview
 - 13.6.5 Biomason Inc. Latest Developments
- 13.7 Solidia Technologies
 - 13.7.1 Solidia Technologies Company Information
 - 13.7.2 Solidia Technologies Microalgae-based Bio-cement Product Portfolios and Specifications
 - 13.7.3 Solidia Technologies Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Solidia Technologies Main Business Overview
 - 13.7.5 Solidia Technologies Latest Developments
- 13.8 GreenAlgae Materials
 - 13.8.1 GreenAlgae Materials Company Information
 - 13.8.2 GreenAlgae Materials Microalgae-based Bio-cement Product Portfolios and Specifications
 - 13.8.3 GreenAlgae Materials Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 GreenAlgae Materials Main Business Overview
 - 13.8.5 GreenAlgae Materials Latest Developments
- 13.9 Algatech Cement Solutions
 - 13.9.1 Algatech Cement Solutions Company Information
 - 13.9.2 Algatech Cement Solutions Microalgae-based Bio-cement Product Portfolios and Specifications
 - 13.9.3 Algatech Cement Solutions Microalgae-based Bio-cement Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Algatech Cement Solutions Main Business Overview

13.9.5 Algatech Cement Solutions Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Microalgae-based Bio-cement Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Microalgae-based Bio-cement Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Bio-Cement Powder

Table 4. Major Players of Bio-Concrete Masonry Unit

Table 5. Major Players of Bio-Mortar

Table 6. Major Players of Others

Table 7. Global Microalgae-based Bio-cement Sales by Form (2021-2026) & (Tons)

Table 8. Global Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)

Table 9. Global Microalgae-based Bio-cement Revenue by Form (2021-2026) & (\$ million)

Table 10. Global Microalgae-based Bio-cement Revenue Market Share by Form (2021-2026)

Table 11. Global Microalgae-based Bio-cement Sale Price by Form (2021-2026) & (US\$/Ton)

Table 12. Major Players of Direct Carbon Fixation

Table 13. Major Players of Bio-assisted Cementation

Table 14. Major Players of Carbon Capture Integration

Table 15. Major Players of Others

Table 16. Global Microalgae-based Bio-cement Sales by Technology (2021-2026) & (Tons)

Table 17. Global Microalgae-based Bio-cement Sales Market Share by Technology (2021-2026)

Table 18. Global Microalgae-based Bio-cement Revenue by Technology (2021-2026) & (\$ million)

Table 19. Global Microalgae-based Bio-cement Revenue Market Share by Technology (2021-2026)

Table 20. Global Microalgae-based Bio-cement Sale Price by Technology (2021-2026) & (US\$/Ton)

Table 21. Major Players of Cyanobacteria Based

Table 22. Major Players of Green Algae Based

Table 23. Major Players of Diatom Based

Table 24. Major Players of Mixed Algae Composite

Table 25. Major Players of Others

Table 26. Global Microalgae-based Bio-cement Sales by CO₂ Sequestration Capacity (2021-2026) & (Tons)

Table 27. Global Microalgae-based Bio-cement Sales Market Share by CO₂ Sequestration Capacity (2021-2026)

Table 28. Global Microalgae-based Bio-cement Revenue by CO₂ Sequestration Capacity (2021-2026) & (\$ million)

Table 29. Global Microalgae-based Bio-cement Revenue Market Share by CO₂ Sequestration Capacity (2021-2026)

Table 30. Global Microalgae-based Bio-cement Sale Price by CO₂ Sequestration Capacity (2021-2026) & (US\$/Ton)

Table 31. Major Players of CO₂ Sequestration Capacity (Low: 100-200 kg CO₂/t)

Table 32. Major Players of CO₂ Sequestration Capacity (Medium: 200-400 kg CO₂/t)

Table 33. Major Players of CO₂ Sequestration Capacity (High: >400 kg CO₂/t)

Table 34. Global Microalgae-based Bio-cement Sale by Application (2021-2026) & (Tons)

Table 35. Global Microalgae-based Bio-cement Sale Market Share by Application (2021-2026)

Table 36. Global Microalgae-based Bio-cement Revenue by Application (2021-2026) & (\$ million)

Table 37. Global Microalgae-based Bio-cement Revenue Market Share by Application (2021-2026)

Table 38. Global Microalgae-based Bio-cement Sale Price by Application (2021-2026) & (US\$/Ton)

Table 39. Global Microalgae-based Bio-cement Sales by Company (2021-2026) & (Tons)

Table 40. Global Microalgae-based Bio-cement Sales Market Share by Company (2021-2026)

Table 41. Global Microalgae-based Bio-cement Revenue by Company (2021-2026) & (\$ millions)

Table 42. Global Microalgae-based Bio-cement Revenue Market Share by Company (2021-2026)

Table 43. Global Microalgae-based Bio-cement Sale Price by Company (2021-2026) & (US\$/Ton)

Table 44. Key Manufacturers Microalgae-based Bio-cement Producing Area Distribution and Sales Area

Table 45. Players Microalgae-based Bio-cement Products Offered

Table 46. Microalgae-based Bio-cement Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 47. New Products and Potential Entrants

Table 48. Market M&A Activity & Strategy

Table 49. Global Microalgae-based Bio-cement Sales by Geographic Region
(2021-2026) & (Tons)

Table 50. Global Microalgae-based Bio-cement Sales Market Share Geographic Region
(2021-2026)

Table 51. Global Microalgae-based Bio-cement Revenue by Geographic Region
(2021-2026) & (\$ millions)

Table 52. Global Microalgae-based Bio-cement Revenue Market Share by Geographic
Region (2021-2026)

Table 53. Global Microalgae-based Bio-cement Sales by Country/Region (2021-2026) &
(Tons)

Table 54. Global Microalgae-based Bio-cement Sales Market Share by Country/Region
(2021-2026)

Table 55. Global Microalgae-based Bio-cement Revenue by Country/Region
(2021-2026) & (\$ millions)

Table 56. Global Microalgae-based Bio-cement Revenue Market Share by
Country/Region (2021-2026)

Table 57. Americas Microalgae-based Bio-cement Sales by Country (2021-2026) &
(Tons)

Table 58. Americas Microalgae-based Bio-cement Sales Market Share by Country
(2021-2026)

Table 59. Americas Microalgae-based Bio-cement Revenue by Country (2021-2026) &
(\$ millions)

Table 60. Americas Microalgae-based Bio-cement Sales by Form (2021-2026) & (Tons)

Table 61. Americas Microalgae-based Bio-cement Sales by Application (2021-2026) &
(Tons)

Table 62. APAC Microalgae-based Bio-cement Sales by Region (2021-2026) & (Tons)

Table 63. APAC Microalgae-based Bio-cement Sales Market Share by Region
(2021-2026)

Table 64. APAC Microalgae-based Bio-cement Revenue by Region (2021-2026) & (\$
millions)

Table 65. APAC Microalgae-based Bio-cement Sales by Form (2021-2026) & (Tons)

Table 66. APAC Microalgae-based Bio-cement Sales by Application (2021-2026) &
(Tons)

Table 67. Europe Microalgae-based Bio-cement Sales by Country (2021-2026) & (Tons)

Table 68. Europe Microalgae-based Bio-cement Revenue by Country (2021-2026) & (\$
millions)

Table 69. Europe Microalgae-based Bio-cement Sales by Form (2021-2026) & (Tons)

Table 70. Europe Microalgae-based Bio-cement Sales by Application (2021-2026) & (Tons)

Table 71. Middle East & Africa Microalgae-based Bio-cement Sales by Country (2021-2026) & (Tons)

Table 72. Middle East & Africa Microalgae-based Bio-cement Revenue Market Share by Country (2021-2026)

Table 73. Middle East & Africa Microalgae-based Bio-cement Sales by Form (2021-2026) & (Tons)

Table 74. Middle East & Africa Microalgae-based Bio-cement Sales by Application (2021-2026) & (Tons)

Table 75. Key Market Drivers & Growth Opportunities of Microalgae-based Bio-cement

Table 76. Key Market Challenges & Risks of Microalgae-based Bio-cement

Table 77. Key Industry Trends of Microalgae-based Bio-cement

Table 78. Microalgae-based Bio-cement Raw Material

Table 79. Key Suppliers of Raw Materials

Table 80. Microalgae-based Bio-cement Distributors List

Table 81. Microalgae-based Bio-cement Customer List

Table 82. Global Microalgae-based Bio-cement Sales Forecast by Region (2027-2032) & (Tons)

Table 83. Global Microalgae-based Bio-cement Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 84. Americas Microalgae-based Bio-cement Sales Forecast by Country (2027-2032) & (Tons)

Table 85. Americas Microalgae-based Bio-cement Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. APAC Microalgae-based Bio-cement Sales Forecast by Region (2027-2032) & (Tons)

Table 87. APAC Microalgae-based Bio-cement Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 88. Europe Microalgae-based Bio-cement Sales Forecast by Country (2027-2032) & (Tons)

Table 89. Europe Microalgae-based Bio-cement Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 90. Middle East & Africa Microalgae-based Bio-cement Sales Forecast by Country (2027-2032) & (Tons)

Table 91. Middle East & Africa Microalgae-based Bio-cement Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Global Microalgae-based Bio-cement Sales Forecast by Form (2027-2032) & (Tons)

Table 93. Global Microalgae-based Bio-cement Revenue Forecast by Form (2027-2032) & (\$ millions)
Table 94. Global Microalgae-based Bio-cement Sales Forecast by Application (2027-2032) & (Tons)
Table 95. Global Microalgae-based Bio-cement Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 96. Prometheus Materials Inc. Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors
Table 97. Prometheus Materials Inc. Microalgae-based Bio-cement Product Portfolios and Specifications
Table 98. Prometheus Materials Inc. Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 99. Prometheus Materials Inc. Main Business
Table 100. Prometheus Materials Inc. Latest Developments
Table 101. Ciments du Maroc Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors
Table 102. Ciments du Maroc Microalgae-based Bio-cement Product Portfolios and Specifications
Table 103. Ciments du Maroc Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 104. Ciments du Maroc Main Business
Table 105. Ciments du Maroc Latest Developments
Table 106. CarbonCure Technologies Inc. Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors
Table 107. CarbonCure Technologies Inc. Microalgae-based Bio-cement Product Portfolios and Specifications
Table 108. CarbonCure Technologies Inc. Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 109. CarbonCure Technologies Inc. Main Business
Table 110. CarbonCure Technologies Inc. Latest Developments
Table 111. Blue Planet Ltd. Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors
Table 112. Blue Planet Ltd. Microalgae-based Bio-cement Product Portfolios and Specifications
Table 113. Blue Planet Ltd. Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 114. Blue Planet Ltd. Main Business
Table 115. Blue Planet Ltd. Latest Developments
Table 116. Algaecraft Biocement Basic Information, Microalgae-based Bio-cement

Manufacturing Base, Sales Area and Its Competitors

Table 117. Algaecraft Biocement Microalgae-based Bio-cement Product Portfolios and Specifications

Table 118. Algaecraft Biocement Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 119. Algaecraft Biocement Main Business

Table 120. Algaecraft Biocement Latest Developments

Table 121. Biomason Inc. Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors

Table 122. Biomason Inc. Microalgae-based Bio-cement Product Portfolios and Specifications

Table 123. Biomason Inc. Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 124. Biomason Inc. Main Business

Table 125. Biomason Inc. Latest Developments

Table 126. Solidia Technologies Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors

Table 127. Solidia Technologies Microalgae-based Bio-cement Product Portfolios and Specifications

Table 128. Solidia Technologies Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 129. Solidia Technologies Main Business

Table 130. Solidia Technologies Latest Developments

Table 131. GreenAlgae Materials Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors

Table 132. GreenAlgae Materials Microalgae-based Bio-cement Product Portfolios and Specifications

Table 133. GreenAlgae Materials Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 134. GreenAlgae Materials Main Business

Table 135. GreenAlgae Materials Latest Developments

Table 136. Algatech Cement Solutions Basic Information, Microalgae-based Bio-cement Manufacturing Base, Sales Area and Its Competitors

Table 137. Algatech Cement Solutions Microalgae-based Bio-cement Product Portfolios and Specifications

Table 138. Algatech Cement Solutions Microalgae-based Bio-cement Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 139. Algatech Cement Solutions Main Business

Table 140. Algatech Cement Solutions Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Microalgae-based Bio-cement
- Figure 2. Microalgae-based Bio-cement Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Microalgae-based Bio-cement Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Microalgae-based Bio-cement Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Microalgae-based Bio-cement Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Microalgae-based Bio-cement Sales Market Share by Country/Region (2025)
- Figure 10. Microalgae-based Bio-cement Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Bio-Cement Powder
- Figure 12. Product Picture of Bio-Concrete Masonry Unit
- Figure 13. Product Picture of Bio-Mortar
- Figure 14. Product Picture of Others
- Figure 15. Global Microalgae-based Bio-cement Sales Market Share by Form in 2026
- Figure 16. Global Microalgae-based Bio-cement Revenue Market Share by Form (2021-2026)
- Figure 17. Product Picture of Direct Carbon Fixation
- Figure 18. Product Picture of Bio-assisted Cementation
- Figure 19. Product Picture of Carbon Capture Integration
- Figure 20. Product Picture of Others
- Figure 21. Global Microalgae-based Bio-cement Sales Market Share by Technology in 2026
- Figure 22. Global Microalgae-based Bio-cement Revenue Market Share by Technology (2021-2026)
- Figure 23. Product Picture of Cyanobacteria Based
- Figure 24. Product Picture of Green Algae Based
- Figure 25. Product Picture of Diatom Based
- Figure 26. Product Picture of Mixed Algae Composite
- Figure 27. Product Picture of Others
- Figure 28. Global Microalgae-based Bio-cement Sales Market Share by CO₂ Sequestration Capacity in 2026

Figure 29. Global Microalgae-based Bio-cement Revenue Market Share by CO₂ Sequestration Capacity (2021-2026)

Figure 30. Product Picture of CO₂ Sequestration Capacity (Low: 100-200 kg CO₂/t)

Figure 31. Product Picture of CO₂ Sequestration Capacity (Medium: 200-400 kg CO₂/t)

Figure 32. Product Picture of CO₂ Sequestration Capacity (High: >400 kg CO₂/t)

Figure 33. Microalgae-based Bio-cement Consumed in Green Building

Figure 34. Global Microalgae-based Bio-cement Market: Green Building (2021-2026) & (Tons)

Figure 35. Microalgae-based Bio-cement Consumed in Infrastructure

Figure 36. Global Microalgae-based Bio-cement Market: Infrastructure (2021-2026) & (Tons)

Figure 37. Microalgae-based Bio-cement Consumed in Ecological Restoration

Figure 38. Global Microalgae-based Bio-cement Market: Ecological Restoration (2021-2026) & (Tons)

Figure 39. Microalgae-based Bio-cement Consumed in Functional Materials

Figure 40. Global Microalgae-based Bio-cement Market: Functional Materials (2021-2026) & (Tons)

Figure 41. Microalgae-based Bio-cement Consumed in Others

Figure 42. Global Microalgae-based Bio-cement Market: Others (2021-2026) & (Tons)

Figure 43. Global Microalgae-based Bio-cement Sale Market Share by Application (2025)

Figure 44. Global Microalgae-based Bio-cement Revenue Market Share by Application in 2025

Figure 45. Microalgae-based Bio-cement Sales by Company in 2025 (Tons)

Figure 46. Global Microalgae-based Bio-cement Sales Market Share by Company in 2025

Figure 47. Microalgae-based Bio-cement Revenue by Company in 2025 (\$ millions)

Figure 48. Global Microalgae-based Bio-cement Revenue Market Share by Company in 2025

Figure 49. Global Microalgae-based Bio-cement Sales Market Share by Geographic Region (2021-2026)

Figure 50. Global Microalgae-based Bio-cement Revenue Market Share by Geographic Region in 2025

Figure 51. Americas Microalgae-based Bio-cement Sales 2021-2026 (Tons)

Figure 52. Americas Microalgae-based Bio-cement Revenue 2021-2026 (\$ millions)

Figure 53. APAC Microalgae-based Bio-cement Sales 2021-2026 (Tons)

Figure 54. APAC Microalgae-based Bio-cement Revenue 2021-2026 (\$ millions)

Figure 55. Europe Microalgae-based Bio-cement Sales 2021-2026 (Tons)

Figure 56. Europe Microalgae-based Bio-cement Revenue 2021-2026 (\$ millions)

- Figure 57. Middle East & Africa Microalgae-based Bio-cement Sales 2021-2026 (Tons)
- Figure 58. Middle East & Africa Microalgae-based Bio-cement Revenue 2021-2026 (\$ millions)
- Figure 59. Americas Microalgae-based Bio-cement Sales Market Share by Country in 2025
- Figure 60. Americas Microalgae-based Bio-cement Revenue Market Share by Country (2021-2026)
- Figure 61. Americas Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)
- Figure 62. Americas Microalgae-based Bio-cement Sales Market Share by Application (2021-2026)
- Figure 63. United States Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Canada Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Mexico Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Brazil Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 67. APAC Microalgae-based Bio-cement Sales Market Share by Region in 2025
- Figure 68. APAC Microalgae-based Bio-cement Revenue Market Share by Region (2021-2026)
- Figure 69. APAC Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)
- Figure 70. APAC Microalgae-based Bio-cement Sales Market Share by Application (2021-2026)
- Figure 71. China Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Japan Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 73. South Korea Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Southeast Asia Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 75. India Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Australia Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 77. China Taiwan Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Europe Microalgae-based Bio-cement Sales Market Share by Country in 2025

Figure 79. Europe Microalgae-based Bio-cement Revenue Market Share by Country (2021-2026)

Figure 80. Europe Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)

Figure 81. Europe Microalgae-based Bio-cement Sales Market Share by Application (2021-2026)

Figure 82. Germany Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 83. France Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 84. UK Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 85. Italy Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 86. Russia Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 87. Middle East & Africa Microalgae-based Bio-cement Sales Market Share by Country (2021-2026)

Figure 88. Middle East & Africa Microalgae-based Bio-cement Sales Market Share by Form (2021-2026)

Figure 89. Middle East & Africa Microalgae-based Bio-cement Sales Market Share by Application (2021-2026)

Figure 90. Egypt Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 91. South Africa Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 92. Israel Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 93. Turkey Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 94. GCC Countries Microalgae-based Bio-cement Revenue Growth 2021-2026 (\$ millions)

Figure 95. Manufacturing Cost Structure Analysis of Microalgae-based Bio-cement in 2026

Figure 96. Manufacturing Process Analysis of Microalgae-based Bio-cement

Figure 97. Industry Chain Structure of Microalgae-based Bio-cement

Figure 98. Channels of Distribution

Figure 99. Global Microalgae-based Bio-cement Sales Market Forecast by Region (2027-2032)

Figure 100. Global Microalgae-based Bio-cement Revenue Market Share Forecast by Region (2027-2032)

Figure 101. Global Microalgae-based Bio-cement Sales Market Share Forecast by Form (2027-2032)

Figure 102. Global Microalgae-based Bio-cement Revenue Market Share Forecast by Form (2027-2032)

Figure 103. Global Microalgae-based Bio-cement Sales Market Share Forecast by Application (2027-2032)

Figure 104. Global Microalgae-based Bio-cement Revenue Market Share Forecast by Application (2027-2032)

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