

Global Microalgae-based Bio-cement Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Microalgae-based Bio-cement market size was valued at US\$ 77.17 million in 2025 and is forecast to a readjusted size of US\$ 123 million by 2032 with a CAGR of 6.8% during review period.

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.

This report is a detailed and comprehensive analysis for global Microalgae-based Bio-cement market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Form and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Microalgae-based Bio-cement market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Microalgae-based Bio-cement market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Microalgae-based Bio-cement market size and forecasts, by Form and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Microalgae-based Bio-cement market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Microalgae-based Bio-cement
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Microalgae-based Bio-cement market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Prometheus Materials Inc., Ciments du Maroc, CarbonCure Technologies Inc., Blue Planet Ltd., Algaecraft Biocement, Biomason Inc., Solidia Technologies, GreenAlgae Materials, Algatech Cement Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Microalgae-based Bio-cement market is split by Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Form, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Form

Bio-Cement Powder

Bio-Concrete Masonry Unit

Bio-Mortar

Others

Market segment by Technology

Direct Carbon Fixation

Bio-assisted Cementation

Carbon Capture Integration

Others

Market segment by CO₂ Sequestration Capacity

Cyanobacteria Based

Green Algae Based

Diatom Based

Mixed Algae Composite

Others

Market segment by Application

Green Building

Infrastructure

Ecological Restoration

Functional Materials

Others

Major players covered

Prometheus Materials Inc.

Ciments du Maroc

CarbonCure Technologies Inc.

Blue Planet Ltd.

Algaecraft Biocement

Biomason Inc.

Solidia Technologies

GreenAlgae Materials

Algatech Cement Solutions

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Microalgae-based Bio-cement product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Microalgae-based Bio-cement, with price, sales quantity, revenue, and global market share of Microalgae-based Bio-cement from 2021 to 2026.

Chapter 3, the Microalgae-based Bio-cement competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Microalgae-based Bio-cement breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Form and by Application, with sales market share and growth rate by Form, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Microalgae-based Bio-cement market forecast, by regions, by Form, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Microalgae-based Bio-cement.

Chapter 14 and 15, to describe Microalgae-based Bio-cement sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Form

1.3.1 Overview: Global Microalgae-based Bio-cement Consumption Value by Form: 2021 Versus 2025 Versus 2032

1.3.2 Bio-Cement Powder

1.3.3 Bio-Concrete Masonry Unit

1.3.4 Bio-Mortar

1.3.5 Others

1.4 Market Analysis by Technology

1.4.1 Overview: Global Microalgae-based Bio-cement Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.4.2 Direct Carbon Fixation

1.4.3 Bio-assisted Cementation

1.4.4 Carbon Capture Integration

1.4.5 Others

1.5 Market Analysis by CO₂ Sequestration Capacity

1.5.1 Overview: Global Microalgae-based Bio-cement Consumption Value by CO₂ Sequestration Capacity: 2021 Versus 2025 Versus 2032

1.5.2 Cyanobacteria Based

1.5.3 Green Algae Based

1.5.4 Diatom Based

1.5.5 Mixed Algae Composite

1.5.6 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Microalgae-based Bio-cement Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Green Building

1.6.3 Infrastructure

1.6.4 Ecological Restoration

1.6.5 Functional Materials

1.6.6 Others

1.7 Global Microalgae-based Bio-cement Market Size & Forecast

1.7.1 Global Microalgae-based Bio-cement Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Microalgae-based Bio-cement Sales Quantity (2021-2032)

1.7.3 Global Microalgae-based Bio-cement Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Prometheus Materials Inc.

2.1.1 Prometheus Materials Inc. Details

2.1.2 Prometheus Materials Inc. Major Business

2.1.3 Prometheus Materials Inc. Microalgae-based Bio-cement Product and Services

2.1.4 Prometheus Materials Inc. Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Prometheus Materials Inc. Recent Developments/Updates

2.2 Ciments du Maroc

2.2.1 Ciments du Maroc Details

2.2.2 Ciments du Maroc Major Business

2.2.3 Ciments du Maroc Microalgae-based Bio-cement Product and Services

2.2.4 Ciments du Maroc Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Ciments du Maroc Recent Developments/Updates

2.3 CarbonCure Technologies Inc.

2.3.1 CarbonCure Technologies Inc. Details

2.3.2 CarbonCure Technologies Inc. Major Business

2.3.3 CarbonCure Technologies Inc. Microalgae-based Bio-cement Product and Services

2.3.4 CarbonCure Technologies Inc. Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 CarbonCure Technologies Inc. Recent Developments/Updates

2.4 Blue Planet Ltd.

2.4.1 Blue Planet Ltd. Details

2.4.2 Blue Planet Ltd. Major Business

2.4.3 Blue Planet Ltd. Microalgae-based Bio-cement Product and Services

2.4.4 Blue Planet Ltd. Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Blue Planet Ltd. Recent Developments/Updates

2.5 Algaecraft Biocement

2.5.1 Algaecraft Biocement Details

2.5.2 Algaecraft Biocement Major Business

2.5.3 Algaecraft Biocement Microalgae-based Bio-cement Product and Services

2.5.4 Algaecraft Biocement Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.5.5 Algaecraft Biocement Recent Developments/Updates
- 2.6 Biomason Inc.
 - 2.6.1 Biomason Inc. Details
 - 2.6.2 Biomason Inc. Major Business
 - 2.6.3 Biomason Inc. Microalgae-based Bio-cement Product and Services
 - 2.6.4 Biomason Inc. Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Biomason Inc. Recent Developments/Updates
- 2.7 Solidia Technologies
 - 2.7.1 Solidia Technologies Details
 - 2.7.2 Solidia Technologies Major Business
 - 2.7.3 Solidia Technologies Microalgae-based Bio-cement Product and Services
 - 2.7.4 Solidia Technologies Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Solidia Technologies Recent Developments/Updates
- 2.8 GreenAlgae Materials
 - 2.8.1 GreenAlgae Materials Details
 - 2.8.2 GreenAlgae Materials Major Business
 - 2.8.3 GreenAlgae Materials Microalgae-based Bio-cement Product and Services
 - 2.8.4 GreenAlgae Materials Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 GreenAlgae Materials Recent Developments/Updates
- 2.9 Algatech Cement Solutions
 - 2.9.1 Algatech Cement Solutions Details
 - 2.9.2 Algatech Cement Solutions Major Business
 - 2.9.3 Algatech Cement Solutions Microalgae-based Bio-cement Product and Services
 - 2.9.4 Algatech Cement Solutions Microalgae-based Bio-cement Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Algatech Cement Solutions Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MICROALGAE-BASED BIO-CEMENT BY MANUFACTURER

- 3.1 Global Microalgae-based Bio-cement Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Microalgae-based Bio-cement Revenue by Manufacturer (2021-2026)
- 3.3 Global Microalgae-based Bio-cement Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Microalgae-based Bio-cement by Manufacturer Revenue (\$MM) and Market Share (%): 2025

- 3.4.2 Top 3 Microalgae-based Bio-cement Manufacturer Market Share in 2025
- 3.4.3 Top 6 Microalgae-based Bio-cement Manufacturer Market Share in 2025
- 3.5 Microalgae-based Bio-cement Market: Overall Company Footprint Analysis
 - 3.5.1 Microalgae-based Bio-cement Market: Region Footprint
 - 3.5.2 Microalgae-based Bio-cement Market: Company Product Type Footprint
 - 3.5.3 Microalgae-based Bio-cement Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Microalgae-based Bio-cement Market Size by Region
 - 4.1.1 Global Microalgae-based Bio-cement Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Microalgae-based Bio-cement Consumption Value by Region (2021-2032)
 - 4.1.3 Global Microalgae-based Bio-cement Average Price by Region (2021-2032)
- 4.2 North America Microalgae-based Bio-cement Consumption Value (2021-2032)
- 4.3 Europe Microalgae-based Bio-cement Consumption Value (2021-2032)
- 4.4 Asia-Pacific Microalgae-based Bio-cement Consumption Value (2021-2032)
- 4.5 South America Microalgae-based Bio-cement Consumption Value (2021-2032)
- 4.6 Middle East & Africa Microalgae-based Bio-cement Consumption Value (2021-2032)

5 MARKET SEGMENT BY FORM

- 5.1 Global Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)
- 5.2 Global Microalgae-based Bio-cement Consumption Value by Form (2021-2032)
- 5.3 Global Microalgae-based Bio-cement Average Price by Form (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Microalgae-based Bio-cement Sales Quantity by Application (2021-2032)
- 6.2 Global Microalgae-based Bio-cement Consumption Value by Application (2021-2032)
- 6.3 Global Microalgae-based Bio-cement Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)
- 7.2 North America Microalgae-based Bio-cement Sales Quantity by Application

(2021-2032)

7.3 North America Microalgae-based Bio-cement Market Size by Country

7.3.1 North America Microalgae-based Bio-cement Sales Quantity by Country

(2021-2032)

7.3.2 North America Microalgae-based Bio-cement Consumption Value by Country

(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)

8.2 Europe Microalgae-based Bio-cement Sales Quantity by Application (2021-2032)

8.3 Europe Microalgae-based Bio-cement Market Size by Country

8.3.1 Europe Microalgae-based Bio-cement Sales Quantity by Country (2021-2032)

8.3.2 Europe Microalgae-based Bio-cement Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)

9.2 Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Microalgae-based Bio-cement Market Size by Region

9.3.1 Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Microalgae-based Bio-cement Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)

10.2 South America Microalgae-based Bio-cement Sales Quantity by Application (2021-2032)

10.3 South America Microalgae-based Bio-cement Market Size by Country

10.3.1 South America Microalgae-based Bio-cement Sales Quantity by Country (2021-2032)

10.3.2 South America Microalgae-based Bio-cement Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Form (2021-2032)

11.2 Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Microalgae-based Bio-cement Market Size by Country

11.3.1 Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Microalgae-based Bio-cement Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Microalgae-based Bio-cement Market Drivers

12.2 Microalgae-based Bio-cement Market Restraints

12.3 Microalgae-based Bio-cement Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Microalgae-based Bio-cement and Key Manufacturers

13.2 Manufacturing Costs Percentage of Microalgae-based Bio-cement

13.3 Microalgae-based Bio-cement Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Microalgae-based Bio-cement Typical Distributors

14.3 Microalgae-based Bio-cement Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Microalgae-based Bio-cement Consumption Value by Form, (USD Million), 2021 & 2025 & 2032

Table 2. Global Microalgae-based Bio-cement Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Global Microalgae-based Bio-cement Consumption Value by CO₂ Sequestration Capacity, (USD Million), 2021 & 2025 & 2032

Table 4. Global Microalgae-based Bio-cement Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Prometheus Materials Inc. Basic Information, Manufacturing Base and Competitors

Table 6. Prometheus Materials Inc. Major Business

Table 7. Prometheus Materials Inc. Microalgae-based Bio-cement Product and Services

Table 8. Prometheus Materials Inc. Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Prometheus Materials Inc. Recent Developments/Updates

Table 10. Ciments du Maroc Basic Information, Manufacturing Base and Competitors

Table 11. Ciments du Maroc Major Business

Table 12. Ciments du Maroc Microalgae-based Bio-cement Product and Services

Table 13. Ciments du Maroc Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Ciments du Maroc Recent Developments/Updates

Table 15. CarbonCure Technologies Inc. Basic Information, Manufacturing Base and Competitors

Table 16. CarbonCure Technologies Inc. Major Business

Table 17. CarbonCure Technologies Inc. Microalgae-based Bio-cement Product and Services

Table 18. CarbonCure Technologies Inc. Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. CarbonCure Technologies Inc. Recent Developments/Updates

Table 20. Blue Planet Ltd. Basic Information, Manufacturing Base and Competitors

Table 21. Blue Planet Ltd. Major Business

Table 22. Blue Planet Ltd. Microalgae-based Bio-cement Product and Services

Table 23. Blue Planet Ltd. Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Blue Planet Ltd. Recent Developments/Updates

Table 25. Algaecraft Biocement Basic Information, Manufacturing Base and Competitors

Table 26. Algaecraft Biocement Major Business

Table 27. Algaecraft Biocement Microalgae-based Bio-cement Product and Services

Table 28. Algaecraft Biocement Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Algaecraft Biocement Recent Developments/Updates

Table 30. Biomason Inc. Basic Information, Manufacturing Base and Competitors

Table 31. Biomason Inc. Major Business

Table 32. Biomason Inc. Microalgae-based Bio-cement Product and Services

Table 33. Biomason Inc. Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Biomason Inc. Recent Developments/Updates

Table 35. Solidia Technologies Basic Information, Manufacturing Base and Competitors

Table 36. Solidia Technologies Major Business

Table 37. Solidia Technologies Microalgae-based Bio-cement Product and Services

Table 38. Solidia Technologies Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Solidia Technologies Recent Developments/Updates

Table 40. GreenAlgae Materials Basic Information, Manufacturing Base and Competitors

Table 41. GreenAlgae Materials Major Business

Table 42. GreenAlgae Materials Microalgae-based Bio-cement Product and Services

Table 43. GreenAlgae Materials Microalgae-based Bio-cement Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. GreenAlgae Materials Recent Developments/Updates

Table 45. Algatech Cement Solutions Basic Information, Manufacturing Base and Competitors

Table 46. Algatech Cement Solutions Major Business

Table 47. Algatech Cement Solutions Microalgae-based Bio-cement Product and Services

Table 48. Algatech Cement Solutions Microalgae-based Bio-cement Sales Quantity

(Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Algatech Cement Solutions Recent Developments/Updates

Table 50. Global Microalgae-based Bio-cement Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 51. Global Microalgae-based Bio-cement Revenue by Manufacturer (2021-2026) & (USD Million)

Table 52. Global Microalgae-based Bio-cement Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 53. Market Position of Manufacturers in Microalgae-based Bio-cement, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 54. Head Office and Microalgae-based Bio-cement Production Site of Key Manufacturer

Table 55. Microalgae-based Bio-cement Market: Company Product Type Footprint

Table 56. Microalgae-based Bio-cement Market: Company Product Application Footprint

Table 57. Microalgae-based Bio-cement New Market Entrants and Barriers to Market Entry

Table 58. Microalgae-based Bio-cement Mergers, Acquisition, Agreements, and Collaborations

Table 59. Global Microalgae-based Bio-cement Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 60. Global Microalgae-based Bio-cement Sales Quantity by Region (2021-2026) & (Tons)

Table 61. Global Microalgae-based Bio-cement Sales Quantity by Region (2027-2032) & (Tons)

Table 62. Global Microalgae-based Bio-cement Consumption Value by Region (2021-2026) & (USD Million)

Table 63. Global Microalgae-based Bio-cement Consumption Value by Region (2027-2032) & (USD Million)

Table 64. Global Microalgae-based Bio-cement Average Price by Region (2021-2026) & (US\$/Ton)

Table 65. Global Microalgae-based Bio-cement Average Price by Region (2027-2032) & (US\$/Ton)

Table 66. Global Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 67. Global Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 68. Global Microalgae-based Bio-cement Consumption Value by Form

(2021-2026) & (USD Million)

Table 69. Global Microalgae-based Bio-cement Consumption Value by Form

(2027-2032) & (USD Million)

Table 70. Global Microalgae-based Bio-cement Average Price by Form (2021-2026) & (US\$/Ton)

Table 71. Global Microalgae-based Bio-cement Average Price by Form (2027-2032) & (US\$/Ton)

Table 72. Global Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 73. Global Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 74. Global Microalgae-based Bio-cement Consumption Value by Application (2021-2026) & (USD Million)

Table 75. Global Microalgae-based Bio-cement Consumption Value by Application (2027-2032) & (USD Million)

Table 76. Global Microalgae-based Bio-cement Average Price by Application (2021-2026) & (US\$/Ton)

Table 77. Global Microalgae-based Bio-cement Average Price by Application (2027-2032) & (US\$/Ton)

Table 78. North America Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 79. North America Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 80. North America Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 81. North America Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 82. North America Microalgae-based Bio-cement Sales Quantity by Country (2021-2026) & (Tons)

Table 83. North America Microalgae-based Bio-cement Sales Quantity by Country (2027-2032) & (Tons)

Table 84. North America Microalgae-based Bio-cement Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America Microalgae-based Bio-cement Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 87. Europe Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 88. Europe Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 89. Europe Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 90. Europe Microalgae-based Bio-cement Sales Quantity by Country (2021-2026) & (Tons)

Table 91. Europe Microalgae-based Bio-cement Sales Quantity by Country (2027-2032) & (Tons)

Table 92. Europe Microalgae-based Bio-cement Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe Microalgae-based Bio-cement Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 95. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 96. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 97. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 98. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Region (2021-2026) & (Tons)

Table 99. Asia-Pacific Microalgae-based Bio-cement Sales Quantity by Region (2027-2032) & (Tons)

Table 100. Asia-Pacific Microalgae-based Bio-cement Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific Microalgae-based Bio-cement Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 103. South America Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 104. South America Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 105. South America Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 106. South America Microalgae-based Bio-cement Sales Quantity by Country (2021-2026) & (Tons)

Table 107. South America Microalgae-based Bio-cement Sales Quantity by Country

(2027-2032) & (Tons)

Table 108. South America Microalgae-based Bio-cement Consumption Value by Country (2021-2026) & (USD Million)

Table 109. South America Microalgae-based Bio-cement Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Form (2021-2026) & (Tons)

Table 111. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Form (2027-2032) & (Tons)

Table 112. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Application (2021-2026) & (Tons)

Table 113. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Application (2027-2032) & (Tons)

Table 114. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Country (2021-2026) & (Tons)

Table 115. Middle East & Africa Microalgae-based Bio-cement Sales Quantity by Country (2027-2032) & (Tons)

Table 116. Middle East & Africa Microalgae-based Bio-cement Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Middle East & Africa Microalgae-based Bio-cement Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Microalgae-based Bio-cement Raw Material

Table 119. Key Manufacturers of Microalgae-based Bio-cement Raw Materials

Table 120. Microalgae-based Bio-cement Typical Distributors

Table 121. Microalgae-based Bio-cement Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Microalgae-based Bio-cement Picture
- Figure 2. Global Microalgae-based Bio-cement Revenue by Form, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Microalgae-based Bio-cement Revenue Market Share by Form in 2025
- Figure 4. Bio-Cement Powder Examples
- Figure 5. Bio-Concrete Masonry Unit Examples
- Figure 6. Bio-Mortar Examples
- Figure 7. Others Examples
- Figure 8. Global Microalgae-based Bio-cement Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Microalgae-based Bio-cement Revenue Market Share by Technology in 2025
- Figure 10. Direct Carbon Fixation Examples
- Figure 11. Bio-assisted Cementation Examples
- Figure 12. Carbon Capture Integration Examples
- Figure 13. Others Examples
- Figure 14. Global Microalgae-based Bio-cement Revenue by CO₂ Sequestration Capacity, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Microalgae-based Bio-cement Revenue Market Share by CO₂ Sequestration Capacity in 2025
- Figure 16. Cyanobacteria Based Examples
- Figure 17. Green Algae Based Examples
- Figure 18. Diatom Based Examples
- Figure 19. Mixed Algae Composite Examples
- Figure 20. Others Examples
- Figure 21. CO₂ Sequestration Capacity (Low: 100-200 kg CO₂/t) Examples
- Figure 22. CO₂ Sequestration Capacity (Medium: 200-400 kg CO₂/t) Examples
- Figure 23. CO₂ Sequestration Capacity (High: >400 kg CO₂/t) Examples
- Figure 24. Global Microalgae-based Bio-cement Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 25. Global Microalgae-based Bio-cement Revenue Market Share by Application in 2025
- Figure 26. Green Building Examples
- Figure 27. Infrastructure Examples
- Figure 28. Ecological Restoration Examples

Figure 29. Functional Materials Examples

Figure 30. Others Examples

Figure 31. Global Microalgae-based Bio-cement Consumption Value, (USD Million):
2021 & 2025 & 2032

Figure 32. Global Microalgae-based Bio-cement Consumption Value and Forecast
(2021-2032) & (USD Million)

Figure 33. Global Microalgae-based Bio-cement Sales Quantity (2021-2032) & (Tons)

Figure 34. Global Microalgae-based Bio-cement Price (2021-2032) & (US\$/Ton)

Figure 35. Global Microalgae-based Bio-cement Sales Quantity Market Share by
Manufacturer in 2025

Figure 36. Global Microalgae-based Bio-cement Revenue Market Share by
Manufacturer in 2025

Figure 37. Producer Shipments of Microalgae-based Bio-cement by Manufacturer Sales
(\$MM) and Market Share (%): 2025

Figure 38. Top 3 Microalgae-based Bio-cement Manufacturer (Revenue) Market Share
in 2025

Figure 39. Top 6 Microalgae-based Bio-cement Manufacturer (Revenue) Market Share
in 2025

Figure 40. Global Microalgae-based Bio-cement Sales Quantity Market Share by
Region (2021-2032)

Figure 41. Global Microalgae-based Bio-cement Consumption Value Market Share by
Region (2021-2032)

Figure 42. North America Microalgae-based Bio-cement Consumption Value
(2021-2032) & (USD Million)

Figure 43. Europe Microalgae-based Bio-cement Consumption Value (2021-2032) &
(USD Million)

Figure 44. Asia-Pacific Microalgae-based Bio-cement Consumption Value (2021-2032)
& (USD Million)

Figure 45. South America Microalgae-based Bio-cement Consumption Value
(2021-2032) & (USD Million)

Figure 46. Middle East & Africa Microalgae-based Bio-cement Consumption Value
(2021-2032) & (USD Million)

Figure 47. Global Microalgae-based Bio-cement Sales Quantity Market Share by Form
(2021-2032)

Figure 48. Global Microalgae-based Bio-cement Consumption Value Market Share by
Form (2021-2032)

Figure 49. Global Microalgae-based Bio-cement Average Price by Form (2021-2032) &
(US\$/Ton)

Figure 50. Global Microalgae-based Bio-cement Sales Quantity Market Share by

Application (2021-2032)

Figure 51. Global Microalgae-based Bio-cement Revenue Market Share by Application (2021-2032)

Figure 52. Global Microalgae-based Bio-cement Average Price by Application (2021-2032) & (US\$/Ton)

Figure 53. North America Microalgae-based Bio-cement Sales Quantity Market Share by Form (2021-2032)

Figure 54. North America Microalgae-based Bio-cement Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Microalgae-based Bio-cement Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Microalgae-based Bio-cement Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Microalgae-based Bio-cement Sales Quantity Market Share by Form (2021-2032)

Figure 61. Europe Microalgae-based Bio-cement Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Microalgae-based Bio-cement Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Microalgae-based Bio-cement Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 65. France Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 69. Asia-Pacific Microalgae-based Bio-cement Sales Quantity Market Share by Form (2021-2032)

Figure 70. Asia-Pacific Microalgae-based Bio-cement Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Microalgae-based Bio-cement Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Microalgae-based Bio-cement Consumption Value Market Share by Region (2021-2032)

Figure 73. China Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 76. India Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Microalgae-based Bio-cement Sales Quantity Market Share by Form (2021-2032)

Figure 80. South America Microalgae-based Bio-cement Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Microalgae-based Bio-cement Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Microalgae-based Bio-cement Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Microalgae-based Bio-cement Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Microalgae-based Bio-cement Sales Quantity Market Share by Form (2021-2032)

Figure 86. Middle East & Africa Microalgae-based Bio-cement Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Microalgae-based Bio-cement Sales Quantity Market Share by Country (2021-2032)

Figure 88. Middle East & Africa Microalgae-based Bio-cement Consumption Value Market Share by Country (2021-2032)

Figure 89. Turkey Microalgae-based Bio-cement Consumption Value (2021-2032) &

(USD Million)

Figure 90. Egypt Microalgae-based Bio-cement Consumption Value (2021-2032) &

(USD Million)

Figure 91. Saudi Arabia Microalgae-based Bio-cement Consumption Value (2021-2032)

& (USD Million)

Figure 92. South Africa Microalgae-based Bio-cement Consumption Value (2021-2032)

& (USD Million)

Figure 93. Microalgae-based Bio-cement Market Drivers

Figure 94. Microalgae-based Bio-cement Market Restraints

Figure 95. Microalgae-based Bio-cement Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Microalgae-based Bio-cement in 2025

Figure 98. Manufacturing Process Analysis of Microalgae-based Bio-cement

Figure 99. Microalgae-based Bio-cement Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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