

# Global Microalgae-based Bio-cement Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Microalgae-based Bio-cement market size is expected to reach \$ 123 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Microalgae-based Bio-cement production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microalgae-

based Bio-cement and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Microalgae-based Bio-cement that contribute to its increasing demand across many markets.

Highlights and key features of the study

- Global Microalgae-based Bio-cement total production and demand, 2021-2032, (Tons)
- Global Microalgae-based Bio-cement total production value, 2021-2032, (USD Million)
- Global Microalgae-based Bio-cement production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
- Global Microalgae-based Bio-cement consumption by region & country, CAGR, 2021-2032 & (Tons)
- U.S. VS China: Microalgae-based Bio-cement domestic production, consumption, key domestic manufacturers and share
- Global Microalgae-based Bio-cement production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
- Global Microalgae-based Bio-cement production by Form, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
- Global Microalgae-based Bio-cement production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Microalgae-based Bio-cement market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Microalgae-based Bio-cement market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Form, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Microalgae-based Bio-cement Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Microalgae-based Bio-cement Market, Segmentation by Form:

Bio-Cement Powder

Bio-Concrete Masonry Unit

Bio-Mortar

Others

#### Global Microalgae-based Bio-cement Market, Segmentation by Technology:

Direct Carbon Fixation

Bio-assisted Cementation

Carbon Capture Integration

Others

Global Microalgae-based Bio-cement Market, Segmentation by CO<sub>2</sub> Sequestration Capacity:

Cyanobacteria Based

Green Algae Based

Diatom Based

Mixed Algae Composite

Others

Global Microalgae-based Bio-cement Market, Segmentation by Application:

Green Building

Infrastructure

Ecological Restoration

Functional Materials

Others

Companies Profiled:

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 Answered:

1. How big is the global Microalgae-based Bio-cement market?
2. What is the demand of the global Microalgae-based Bio-cement market?
3. What is the year over year growth of the global Microalgae-based Bio-cement market?
4. What is the production and production value of the global Microalgae-based Bio-cement market?
5. Who are the key producers in the global Microalgae-based Bio-cement market?
6. What are the growth factors driving the market demand?

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