

# **Hempcrete Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (Blocks, Panels, Spray Hempcrete, Loose Fill), By Distribution Channel (Direct Sales, Retail), By Application (Residential, Commercial, Industrial, Heritage Building), By Region, and By Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

Global Hempcrete Market was valued at USD 1.55 Billion in 2024 and is expected to reach USD 2.79 Billion by 2030 with a CAGR of 10.10% during the forecast period.

The global hempcrete market is rapidly gaining momentum as the construction industry shifts toward sustainable, eco-friendly materials. Hempcrete, a biocomposite made from hemp hurds and lime-based binders, is valued for its superior insulation, breathability, fire resistance, and low environmental impact. Unlike conventional concrete, hempcrete does not serve as a structural element, but its benefits as an infill system in walls, floors, and roofs are unmatched in sustainable construction. With the global push toward carbon-neutral buildings and the increasing influence of green certifications such as LEED and BREEAM, hempcrete is becoming a preferred alternative for both residential and commercial developers.

### Key Market Drivers

### Sustainability and Carbon Sequestration

One of the most compelling drivers of the hempcrete market is its ability to contribute to sustainable construction through carbon sequestration. Hemp plants can absorb up to 15 tonnes of carbon dioxide per hectare during growth, making hemp cultivation significantly more effective in carbon capture than traditional forestry. When used in construction, hempcrete can store between 110 and 165 kilograms of CO<sub>2</sub> per cubic meter, depending on the binder and curing conditions. Unlike conventional concrete, which emits approximately 400 kg of CO<sub>2</sub> per cubic meter during production, hempcrete continues to absorb carbon throughout its lifecycle.

Additionally, the lime binder in hempcrete undergoes carbonation, a process that reabsorbs up to 35% of the CO<sub>2</sub> released during production. In building envelopes, hempcrete applications can reduce operational carbon emissions by 20–30% due to its high thermal efficiency. A typical hempcrete-insulated house emits 40% less carbon over 30 years compared to one built with synthetic materials. As the construction industry accounts for roughly 39% of global carbon emissions, this material's negative carbon footprint positions it as a long-term solution to climate change goals. Government incentives for low-emission materials further enhance its market potential. With climate-conscious buyers and building codes demanding greener materials, sustainability will continue to propel the adoption of hempcrete in diverse markets.

## Key Market Challenges

### Limited Raw Material Supply and Regulatory Constraints

One of the most pressing challenges for the hempcrete market is the inconsistent availability of high-quality hemp hurd. Despite growing demand, industrial hemp cultivation remains limited in many countries due to cumbersome licensing processes and fragmented agricultural infrastructure. In North America, only around 30,000 acres are currently licensed, and production suffers from regional gaps and seasonality. Asia Pacific, although growing in hemp acreage, faces inconsistent yield due to climate variability. Europe leads in hemp farming, but 40% of hurds are still imported to satisfy local demand. Regulations governing THC content and crop monitoring can delay planting cycles, often by several months, restricting manufacturers from optimizing production volumes. The supply chain also suffers from low levels of mechanized hurd-processing facilities, with just a handful of high-capacity factories globally, creating bottlenecks and pushing production costs up to 40% higher than conventional materials. This uneven supply results in fluctuating prices and procurement challenges for construction companies looking to integrate hempcrete.

## Key Market Trends

### Rising Certification and Standards Integration

Green building certifications are increasingly embracing hempcrete as a recognized material. LEED is awarding credits for hemp-based materials, and BREEAM has classified low-carbon hemp composites under higher points tiers. Passive House certifications now include dedicated allowances for hemp-lime systems that meet U-values below 0.15 W/m<sup>2</sup>K. In North America, over 300 certified buildings used hemp-based components in 2024, up from just 75 in 2021. Organizations like ASTM and ISO are drafting standardized test methods, and the U.S. ICC is reviewing formal sections for hempcrete in upcoming code editions. Regional quality marks—such as “HempVent” in Europe or “HempSafe” in Asia—are emerging to assure performance consistency and help decouple hempcrete from experimental status.

### Key Market Players

IsoHemp

Hempitecture Inc.

Just BioFiber Structural Solutions Corp.

Lime Technology Ltd

American Lime Technology

Nature Fibres

The Hurd Co.

Afrimat Hemp

HempBLOCK Australia

Biohm

### Report Scope:

*Hempcrete Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (...)*

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

#### Hempcrete Market, By Product Type:

Blocks

Panels

Spray Hempcrete

Loose Fill

#### Hempcrete Market, By Distribution Channel:

Direct Sales

Retail

#### Hempcrete Market, By Application:

Residential

Commercial

Industrial

Heritage Building

#### Hempcrete Market, By Region:

North America

United States

Canada

Mexico

## Europe

Germany

France

United Kingdom

Italy

Spain

## South America

Brazil

Argentina

Colombia

## Asia-Pacific

China

India

Japan

South Korea

Australia

## Middle East & Africa

Saudi Arabia

UAE

## South Africa

### Competitive Landscape

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

### Available Customizations:

Global Hempcrete Market report with the given market data, Tech Sci Research 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, and Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL HEMPCRETE MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Product Type (Blocks, Panels, Spray Hempcrete, Loose Fill)
  - 5.2.2. By Distribution Channel (Direct Sales, Retail)
  - 5.2.3. By Application (Residential, Commercial, Industrial, Heritage Building)
  - 5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia)

Pacific)

5.3. By Company (2024)

5.4. Market Map

## **6. NORTH AMERICA HEMPCRETE MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Type

6.2.2. By Distribution Channel

6.2.3. By Application

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Hempcrete 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 Product Type

6.3.1.2.2. By Distribution Channel

6.3.1.2.3. By Application

6.3.2. Canada Hempcrete 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 Product Type

6.3.2.2.2. By Distribution Channel

6.3.2.2.3. By Application

6.3.3. Mexico Hempcrete 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 Product Type

6.3.3.2.2. By Distribution Channel

6.3.3.2.3. By Application

## **7. EUROPE HEMPCRETE MARKET OUTLOOK**

7.1. Market Size & Forecast

- 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Product Type
  - 7.2.2. By Distribution Channel
  - 7.2.3. By Application
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Hempcrete 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 Product Type
      - 7.3.1.2.2. By Distribution Channel
      - 7.3.1.2.3. By Application
  - 7.3.2. France Hempcrete 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 Product Type
      - 7.3.2.2.2. By Distribution Channel
      - 7.3.2.2.3. By Application
  - 7.3.3. United Kingdom Hempcrete 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 Product Type
      - 7.3.3.2.2. By Distribution Channel
      - 7.3.3.2.3. By Application
  - 7.3.4. Italy Hempcrete 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 Product Type
      - 7.3.4.2.2. By Distribution Channel
      - 7.3.4.2.3. By Application
  - 7.3.5. Spain Hempcrete 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 Product Type
- 7.3.5.2.2. By Distribution Channel
- 7.3.5.2.3. By Application

## **8. ASIA PACIFIC HEMPCRETE MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Product Type
  - 8.2.2. By Distribution Channel
  - 8.2.3. By Application
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Hempcrete 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 Product Type
      - 8.3.1.2.2. By Distribution Channel
      - 8.3.1.2.3. By Application
  - 8.3.2. India Hempcrete 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 Product Type
      - 8.3.2.2.2. By Distribution Channel
      - 8.3.2.2.3. By Application
  - 8.3.3. Japan Hempcrete 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 Product Type
      - 8.3.3.2.2. By Distribution Channel
      - 8.3.3.2.3. By Application
  - 8.3.4. South Korea Hempcrete 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 Product Type
- 8.3.4.2.2. By Distribution Channel
- 8.3.4.2.3. By Application
- 8.3.5. Australia Hempcrete 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 Product Type
    - 8.3.5.2.2. By Distribution Channel
    - 8.3.5.2.3. By Application

## **9. MIDDLE EAST & AFRICA HEMPCRETE MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Product Type
  - 9.2.2. By Distribution Channel
  - 9.2.3. By Application
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Hempcrete 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 Product Type
      - 9.3.1.2.2. By Distribution Channel
      - 9.3.1.2.3. By Application
  - 9.3.2. UAE Hempcrete 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 Product Type
      - 9.3.2.2.2. By Distribution Channel
      - 9.3.2.2.3. By Application
  - 9.3.3. South Africa Hempcrete 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 Product Type
- 9.3.3.2.2. By Distribution Channel
- 9.3.3.2.3. By Application

## **10. SOUTH AMERICA HEMPCRETE MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Product Type
  - 10.2.2. By Distribution Channel
  - 10.2.3. By Application
  - 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Hempcrete 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 Product Type
      - 10.3.1.2.2. By Distribution Channel
      - 10.3.1.2.3. By Application
  - 10.3.2. Colombia Hempcrete 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 Product Type
      - 10.3.2.2.2. By Distribution Channel
      - 10.3.2.2.3. By Application
  - 10.3.3. Argentina Hempcrete 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 Product Type
      - 10.3.3.2.2. By Distribution Channel
      - 10.3.3.2.3. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers

## 11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

### 12.1. Merger & Acquisition (If Any)

### 12.2. Product Launches (If Any)

### 12.3. Recent Developments

## **13. COMPANY PROFILES**

### 13.1. IsoHemp

#### 13.1.1. Business Overview

#### 13.1.2. Key Revenue and Financials

#### 13.1.3. Recent Developments

#### 13.1.4. Key Personnel

#### 13.1.5. Key Product/Services Offered

### 13.2. Hempitecture Inc.

### 13.3. Just BioFiber Structural Solutions Corp.

### 13.4. Lime Technology Ltd

### 13.5. American Lime Technology

### 13.6. Nature Fibres

### 13.7. The Hurd Co.

### 13.8. Afrimat Hemp

### 13.9. HempBLOCK Australia

### 13.10. Biohm

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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