

Global Underwater Concrete Market Size Study, by Raw Material (Concrete, Precast Concrete), by Application (Dams & Reservoirs, Marine Constructions, Underwater Repairs, Offshore Wind Power Generation, Tunnel), by Laying Techniques, and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G2CE3AA338D8EN.html>

Date: January 2025

Pages: 285

Price: US\$ 4,950.00 (Single User License)

ID: G2CE3AA338D8EN

Abstracts

The Global Underwater Concrete Market, valued at approximately USD 135.7 billion in 2023, is set to experience a substantial growth trajectory with a compound annual growth rate (CAGR) of 5.3% during the forecast period from 2024 to 2032. Underwater concrete has become an indispensable component in infrastructure projects where water-based construction is required. This specialized concrete is designed to maintain its integrity and functionality even when submerged, proving essential in a wide array of applications, from dams and marine constructions to tunnel systems and offshore wind power generation.

Driven by the growing emphasis on infrastructural resilience and sustainability, the market is witnessing an upsurge in demand. The increasing focus on renewable energy, particularly offshore wind farms, significantly boosts the requirement for advanced underwater concrete solutions. Additionally, the rapid urbanization and industrialization in emerging economies have escalated the construction of critical infrastructures such as dams and reservoirs, propelling the market forward. Innovations in underwater concrete technology, including self-compacting and anti-washout formulations, have further enhanced its operational efficiency and environmental compatibility.

However, challenges persist in the form of high production costs and the complexity of underwater placement techniques. These factors may act as potential deterrents to

market expansion. Nonetheless, ongoing advancements in construction methodologies, coupled with the rising adoption of precast underwater concrete for its cost efficiency and precision, are poised to create lucrative opportunities for market players in the coming years.

Regionally, North America remains a dominant market for underwater concrete, underpinned by extensive marine infrastructure projects and stringent environmental standards. Europe closely follows, driven by its focus on sustainable development and the expansion of offshore renewable energy initiatives. Meanwhile, the Asia-Pacific region is projected to exhibit the fastest growth, with countries like China and India investing heavily in infrastructure development, particularly in water-intensive projects.

Major market players included in this report are:

Sika AG

HeidelbergCement AG

CEMEX S.A.B. de C.V.

MAPEI S.p.A.

LafargeHolcim Ltd

BASF SE

KPM Industries Ltd

Conmix Ltd

Five Star Products Inc.

Vulcan Materials Company

Martin Marietta Materials Inc.

U.S. Concrete, Inc.

Holcim Group

Tarmac Trading Ltd

Bostik SA

The detailed segments and sub-segments of the market are explained below:

By Raw Material

Concrete

Precast Concrete

By Application

Dams & Reservoirs

Marine Constructions

Underwater Repairs

Offshore Wind Power Generation

Tunnel

By Laying Techniques

Tremie Method

Pump Method

Pre-placed Aggregate Method

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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