

# **Hydrophobic Coatings Market Report by Type (Anti-Corrosion, Anti-Microbial, Anti-Icing, Self-Cleaning, Anti-Fouling, and Others), Material (Polysiloxanes, FluoroAlkylsilanes, Fluoropolymers, and Others), Fabrication Method (Chemical Vapour Deposition, Phase Separation, Sol Gel Process, Electrospinning, Etching), Application (Building and Construction, Electronics, Automotive, Textiles, Consumer Goods, Medical and Healthcare, and Others), and Region 2024-2032**

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## **Abstracts**

The global hydrophobic coatings market size reached US\$ 2.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.6 Billion by 2032, exhibiting a growth rate (CAGR) of 4.5% during 2024-2032.

Hydrophobic coatings refer to thin layers of nanoparticles that repel water. They are applied to surfaces of various products, such as metal, glass, concrete, plastic, wood, and ceramics, to make them water repellent and easier to clean as water, dirt, and other substances roll off the surface. They also provide excellent resistance to moisture, corrosion, scratch and abrasion, and self-cleaning properties to surfaces. As a result, hydrophobic coatings are extensively used across the construction, automotive, healthcare, textiles, aerospace, and marine industries.

Hydrophobic Coatings Market Trends:

The increasing applications of hydrophobic coatings across various sectors represent

the primary factor driving the market growth. For instance, automotive manufacturers are increasingly utilizing hydrophobic coatings for car windows, displays, and metal components. This, in confluence with the growing automobile production, surging sales of high-end vehicles, and rising consumer expenditure capacities, is augmenting the product demand. Additionally, several product innovations, such as the implementation of nanoparticles in hydrophobic coatings to improve performance characteristics and surface area, are catalyzing the market growth. Besides this, since antimicrobial coatings prevent microbial growth, they have gained traction in the healthcare sector for manufacturing water-repellent medical devices, surgical tools, and nonwovens, such as gloves and gowns. Furthermore, the widespread adoption of anti-corrosion coatings for aerospace and automobile components and increasing construction activities in the residential and commercial sectors are propelling the market growth. Other factors, including the growing product usage in the optical industry, rising investments in research and development (R&D) activities by key players, and technological advancements, are also creating a positive market outlook.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hydrophobic coatings market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, material, fabrication method, and application.

#### Breakup by Type:

- Anti-Corrosion
- Anti-Microbial
- Anti-Icing
- Self-Cleaning
- Anti-Fouling
- Others

#### Breakup by Material:

- Polysiloxanes
- FluoroAlkylsilanes
- Fluoropolymers
- Others

#### Breakup by Fabrication Method:

Chemical Vapour Deposition  
Phase Separation  
Sol Gel Process  
Electrospinning  
Etching

Breakup by Application:

Building and Construction  
Electronics  
Automotive  
Textiles  
Consumer Goods  
Medical and Healthcare  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America

Brazil

Mexico

Others

Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Abrisa Technologies, AccuCoat Inc., Aculon Inc., Akzo Nobel N.V., BASF SE, Cytonix LLC, NEI Corporation, NeverWet LLC, Nippon Paint Holdings Co. Ltd., P2i Ltd. and PPG Industries Inc.

#### Key Questions Answered in This Report

1. What was the size of the global hydrophobic coatings market in 2023?
2. What is the expected growth rate of the global hydrophobic coatings market during 2024-2032?
3. What are the key factors driving the global hydrophobic coatings market?
4. What has been the impact of COVID-19 on the global hydrophobic coatings market?
5. What is the breakup of the global hydrophobic coatings market based on the type?
6. What is the breakup of the global hydrophobic coatings market based on the material?
7. What is the breakup of the global hydrophobic coatings market based on the fabrication method?
8. What is the breakup of the global hydrophobic coatings market based on the application?
9. What are the key regions in the global hydrophobic coatings market?
10. Who are the key players/companies in the global hydrophobic coatings market?

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