

# **Aqueous Polyurethane Dispersion Market – Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Product (Component Polyurethane, Two Component Polyurethane, Urethane Modified), By Application (PUD Leather Finishing Agents, PUD Coating Agents, PUD Water-based Glue, Waterborne Wood Coatings, Water-based Paints), By Region, Competition**

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## **Abstracts**

Global Aqueous Polyurethane Dispersion Market has valued at USD 2.12 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.11% through 2028. Aqueous Polyurethane Dispersion (APD) market has emerged as a key player in the realm of coatings, adhesives, sealants, and elastomers. This water-based solution offers a compelling alternative to traditional solvent-based formulations, catering to the growing demand for eco-friendly and sustainable products.

APD market has witnessed robust growth in recent years, driven by factors such as increasing environmental consciousness, stringent regulations on volatile organic compounds (VOCs), and the versatility of aqueous polyurethane dispersions across various industries. The market spans applications in textiles, automotive, construction, furniture, and more, showcasing its adaptability and widespread utility.

As industries worldwide navigate the paradigm shift towards sustainability, aqueous polyurethane dispersions stand as a beacon of eco-friendly innovation. The market's trajectory reflects a harmonious blend of environmental responsibility, technological advancement, and industry adaptation, making it a key player in the evolving landscape

of coatings, adhesives, and beyond.

## Key Market Drivers

### End Use Industries Demand

Aqueous Polyurethane Dispersion (APD) market is experiencing a robust surge in demand, propelled by an increasing appetite from diverse industries seeking sustainable and high-performance solutions. This demand is underpinned by several key factors that highlight the versatility and adaptability of APDs across various applications.

One of the primary drivers is the global shift towards environmental sustainability. With a growing awareness of the ecological impact of industrial processes, industries are actively seeking alternatives that minimize their carbon footprint. APDs, being water-based formulations, align with this sustainability agenda by significantly reducing volatile organic compound (VOC) emissions, making them an attractive choice for environmentally conscious industries.

Regulatory compliance is another driving force. Stringent regulations governing VOC emissions and hazardous chemical usage are compelling industries to explore greener alternatives. APDs, with their compliance-friendly profile, emerge as a solution that not only meets regulatory standards but also offers performance advantages.

The versatility of APDs plays a crucial role in their widespread adoption. Industries ranging from textiles and automotive to construction and furniture find applications for APDs in coatings, adhesives, sealants, and elastomers. This adaptability positions APDs as a go-to solution for diverse manufacturing needs, contributing to their increasing demand.

### Technological Advancements

Technological advancements have become the driving force behind the flourishing Aqueous Polyurethane Dispersion (APD) market, revolutionizing the landscape of coatings, adhesives, sealants, and elastomers. These advancements play a pivotal role in enhancing the performance characteristics of APDs, propelling their adoption across diverse industries.

One of the key technological breakthroughs lies in the formulation of APDs, focusing on

improving properties such as flexibility, adhesion, and durability. As research and development efforts continue, manufacturers are pushing the boundaries of innovation to create APDs that outperform traditional solvent-based alternatives. This has led to a paradigm shift, with APDs becoming synonymous with high-performance, eco-friendly solutions.

The use of nanotechnology is another notable advancement contributing to the growth of the APD market. By incorporating nanoparticles into APD formulations, manufacturers can achieve superior mechanical and barrier properties. This not only enhances the functionality of coatings and adhesives but also expands the range of applications for APDs, from automotive finishes to protective coatings in construction.

Furthermore, advancements in production processes contribute to the scalability and efficiency of APD manufacturing. Continuous efforts to optimize production methods result in cost-effective solutions without compromising on quality. This efficiency is crucial in meeting the increasing demand from various industries.

### Increasing Automotive Production

Aqueous Polyurethane Dispersion (APD) market is experiencing a significant upswing, and a key driver of this surge is the escalating demand from the automotive sector. The robust growth in automotive production has propelled APDs into the spotlight, establishing them as essential components in various applications within the automotive industry.

One of the primary reasons for the increasing adoption of APDs in automotive manufacturing is their role in coatings. Aqueous polyurethane dispersions offer a compelling solution for automotive coatings, providing durability, corrosion resistance, and aesthetic appeal. As the automotive industry strives for enhanced performance and appearance, APDs have emerged as a go-to choice for achieving these objectives.

Stringent environmental regulations and the automotive industry's commitment to sustainability further drive the demand for APDs. With a water-based composition, APDs significantly reduce volatile organic compound (VOC) emissions compared to traditional solvent-based coatings. This aligns with the automotive sector's sustainability goals and regulatory compliance requirements, positioning APDs as a preferred solution for coating applications.

Moreover, the versatility of APDs extends beyond coatings to adhesives and sealants

used in automotive assembly processes. Their ability to provide strong adhesion, flexibility, and resistance to environmental factors makes them instrumental in ensuring the structural integrity and longevity of automotive components.

## Key Market Challenges

### Raw Material Cost Fluctuations

The Aqueous Polyurethane Dispersion (APD) market, while witnessing remarkable growth, is not without its challenges, and one prominent hurdle is the fluctuation in raw material costs. The production of APDs involves the use of various raw materials, and their availability and pricing can significantly impact the overall dynamics of the market.

One of the critical components in APD formulations is derived from petrochemicals, making the market susceptible to fluctuations in the oil and gas sector. The volatile nature of these commodity prices can lead to sudden and unpredictable shifts in the cost of raw materials for APDs. Such fluctuations can exert pressure on manufacturers, affecting production costs and, in turn, the pricing of APD products.

The interconnected global supply chain further magnifies the challenge. Supply disruptions, geopolitical tensions, or natural disasters in key regions can disrupt the sourcing of raw materials, leading to shortages and driving costs higher. This vulnerability to external factors adds a layer of complexity for APD manufacturers, requiring them to navigate uncertainties in the supply chain.

The cost fluctuations in raw materials also pose challenges in maintaining product consistency and quality. As manufacturers may need to source alternative materials during periods of volatility, ensuring the same level of performance in APD formulations becomes a demanding task.

### Technical Challenges

Aqueous Polyurethane Dispersion (APD) market, despite its promising growth, encounters substantial challenges, and chief among them are the technical hurdles associated with the formulation and application of these water-based dispersions.

One of the primary technical challenges is the need for consistent high performance across diverse applications. Industries ranging from textiles and automotive to construction and furniture demand APDs with specific properties such as durability,

flexibility, and adhesion. Meeting these varied requirements necessitates ongoing research and development efforts to fine-tune formulations and ensure that APDs deliver optimal performance across a spectrum of use cases.

Developing APDs with enhanced properties is another technical challenge. As industries evolve, there is a constant demand for improvements in performance parameters. The APD market must innovate to meet these evolving expectations, whether it be achieving superior mechanical properties, optimizing curing processes, or enhancing resistance to environmental factors.

Moreover, the complexity of formulations poses a significant technical hurdle. Balancing the various chemical components to achieve stability, consistency, and the desired performance attributes requires precision and expertise. The challenge is to maintain these qualities while also adhering to environmental regulations and sustainability standards.

Application techniques present another layer of technical complexity. As industries seek more efficient and precise methods of applying APDs, manufacturers must stay ahead in developing and adapting application technologies. Advanced spray technologies and precision coating equipment, for instance, require continuous refinement to ensure uniform and high-quality finishes.

## Key Market Trends

### Growing Emphasis on Sustainability

Aqueous Polyurethane Dispersion (APD) market is experiencing a transformative wave driven by an unwavering commitment to sustainability. As global awareness of environmental issues intensifies, industries are increasingly turning to eco-friendly alternatives, and APDs have emerged as a beacon of sustainability in the coatings and adhesives landscape.

One of the primary drivers of this trend is the imperative to reduce volatile organic compound (VOC) emissions. Traditional solvent-based formulations contribute significantly to air pollution and environmental degradation. APDs, being water-based, offer a solution that drastically minimizes VOC emissions, aligning with stringent environmental regulations and sustainability goals.

The construction industry, a major consumer of coatings and adhesives, is undergoing a

paradigm shift towards sustainable practices. The demand for high-performance yet environmentally friendly solutions in construction applications is a key factor propelling the adoption of APDs. From water-based coatings enhancing the durability of structures to eco-friendly adhesives used in green building projects, APDs are playing a pivotal role in fostering sustainability in construction.

The textile and apparel sector is also witnessing a shift towards sustainable practices. APDs are finding increased use in textile coatings, providing water repellency and breathability without compromising on eco-friendliness. This aligns with the growing consumer demand for sustainable and responsibly produced textiles.

### Rising Demand in Construction Industry

Aqueous Polyurethane Dispersion (APD) market is witnessing a significant surge, propelled by the rising demand in the construction industry. As global construction activities experience a robust uptick, APDs have emerged as indispensable components in coatings, adhesives, and sealants, contributing to the industry's quest for high-performance and sustainable solutions.

One of the primary drivers of APD adoption in the construction sector is the demand for environmentally friendly and low-emission coatings. With an increasing emphasis on sustainability, water-based formulations like APDs are becoming the preferred choice to mitigate the environmental impact associated with solvent-based alternatives. This aligns seamlessly with the construction industry's commitment to green building practices and regulatory standards governing emissions.

APDs find versatile applications in the construction sector, from coatings that enhance the durability and longevity of structures to adhesives and sealants used in bonding and sealing applications. The versatility of APDs allows them to address various construction needs, contributing to their widespread adoption across the industry.

The construction industry's adoption of APDs is also driven by the desire for high-performance solutions. APDs offer characteristics such as excellent adhesion, flexibility, and resistance to environmental factors, meeting the stringent requirements of construction materials and applications. These dispersions play a crucial role in enhancing the overall performance and longevity of construction projects.

### Focus on Nanotechnology

Aqueous Polyurethane Dispersion (APD) market is experiencing a transformative wave, and a key driver of this evolution is the growing focus on nanotechnology.

Nanotechnology involves the manipulation of materials at the nanoscale, and its integration into APD formulations is revolutionizing the capabilities and applications of these water-based dispersions.

One of the primary ways nanotechnology is influencing the APD market is through the incorporation of nanoparticles into formulations. These nanoparticles, often ranging from 1 to 100 nanometers in size, bring unique properties and advantages to APDs. For instance, the addition of nanoscale particles can enhance mechanical properties, making coatings more durable and resistant to wear and tear.

In the realm of barrier properties, nanotechnology plays a crucial role. The introduction of nanoparticles into APDs can create coatings and adhesives with improved resistance to moisture, chemicals, and other environmental factors. This not only enhances the overall performance of APDs but also expands their range of applications across industries.

Nanotechnology is also contributing to advancements in curing processes. The use of nanoscale additives can accelerate curing times, leading to faster production cycles and increased efficiency in manufacturing processes. This is particularly significant in industries where rapid curing is a critical factor.

## Segmental Insights

### Product Insights

Component Polyurethane dispersions represent a specialized segment within the APD market. These dispersions typically consist of pre-polymerized polyurethane particles that can be easily mixed with water or other components to form the final coating or adhesive. The advantage of Component Polyurethane lies in its versatility and ease of use, making it a preferred choice for industries seeking efficient and customizable solutions.

Two Component Polyurethane dispersions introduce a dual-component system, where two separate constituents are combined prior to application. This approach allows for precise control over the curing process, enabling manufacturers to tailor the dispersions for specific applications. The two-component system enhances the overall performance of the final product, providing durability and versatility in coatings and adhesives.

Urethane Modified dispersions represent a category that combines the best of polyurethane technology with modifications to enhance specific properties. These modifications may include variations in chemical composition, cross-linking methods, or the introduction of additives. Urethane Modified dispersions offer an optimized balance of properties, such as improved flexibility, adhesion, and resistance to environmental factors.

### Application Insights

In the realm of fashion and textiles, PUD Leather Finishing Agents have become indispensable. These agents provide a sustainable alternative to traditional solvent-based finishes, offering a range of benefits such as enhanced durability, flexibility, and a luxurious appearance. The use of PUD in leather finishing aligns with the fashion industry's growing emphasis on sustainable and environmentally friendly practices.

PUD Coating Agents have carved a niche in industries such as automotive, where durable and high-performance coatings are imperative. These agents provide a water-based solution that delivers excellent adhesion, resistance to chemicals, and a smooth finish. The automotive sector, in particular, values the environmentally conscious nature of PUD coatings, contributing to the industry's commitment to sustainability.

In the realm of adhesives, PUD Water-based Glue stands out for its versatility and eco-friendly profile. This adhesive is widely used in woodworking, packaging, and various assembly processes. Its strong bonding capabilities, coupled with the absence of harmful solvents, make PUD water-based glue a preferred choice for industries that prioritize both performance and environmental responsibility.

PUD's application in waterborne wood coatings has revolutionized the wood industry. These coatings offer excellent protection, durability, and resistance to wear and tear. From furniture to flooring, waterborne wood coatings provide a sustainable solution without compromising on performance, catering to the increasing demand for environmentally conscious choices in the wood industry.

The versatility of PUD extends to water-based paints, where it serves as a key ingredient in formulations. Water-based paints incorporating PUD offer low VOC emissions, quick drying times, and excellent color retention. This makes them suitable for a range of applications, including interior and exterior paints, contributing to the green building movement and the overall shift towards sustainable coatings.



## Regional Insights

Asia Pacific stands at the forefront of driving the Aqueous Polyurethane Dispersion market, fueled by the region's rapid industrialization and economic development. Countries like China, India, Japan, and South Korea are witnessing substantial growth in construction, automotive production, and textile industries. The demand for eco-friendly coatings and adhesives in these sectors is propelling the adoption of APDs. Additionally, stringent environmental regulations in countries like China are accelerating the shift towards water-based formulations, further boosting the market.

In Europe, the Aqueous Polyurethane Dispersion market is thriving, buoyed by the region's strong emphasis on environmental sustainability. The European Union's stringent regulations on volatile organic compounds (VOCs) and hazardous substances have compelled industries to seek greener alternatives. APDs, with their low VOC emissions and eco-friendly nature, align perfectly with these regulatory standards. The robust automotive and construction sectors in Europe are major contributors to the growing demand for APDs.

North America is a key player in propelling the growth of the APD market. The region's commitment to sustainability and stringent environmental regulations, particularly in the United States and Canada, has led to a shift towards water-based formulations. The construction industry, especially in the United States, is a significant consumer of APDs for coatings and adhesives, driven by the need for high-performance solutions with minimal environmental impact.

## Key Market Players

BASF SE

Lamberti S.p.A.

Alberdingk Boley

C. L. HAUTHAWAY & SONS CORP

Covestro AG

DSM Corporation

Wanhua Chemical Group

Lanxess AG

Stahl Holding

Chase Corp

#### Report Scope:

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

#### Aqueous Polyurethane Dispersion Market, By Product:

Component Polyurethane

Two Component Polyurethane

Urethane Modified

#### Aqueous Polyurethane Dispersion Market, By Application:

PUD Leather Finishing Agents

PUD Coating Agents

PUD Water-based Glue

Waterborne Wood Coatings

Water-based Paints

#### Aqueous Polyurethane Dispersion Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aqueous Polyurethane Dispersion Market.

### Available Customizations:

Global Aqueous Polyurethane Dispersion 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 Applications
- 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, Trends

### **4. IMPACT OF COVID-19 ON GLOBAL AQUEOUS POLYURETHANE DISPERSION MARKET**

### **5. GLOBAL AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value & Volume
- 5.2. Market Share & Forecast
  - 5.2.1. By Product (Component Polyurethane, Two Component Polyurethane, Urethane Modified)

5.2.2. By Application (PUD Leather Finishing Agents, PUD Coating Agents, PUD Water-based Glue, Waterborne Wood Coatings, Water-based Paints)

5.2.3. By Region

5.2.4. By Company (2022)

5.3. Market Map

## **6. ASIA PACIFIC AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value & Volume

6.2. Market Share & Forecast

6.2.1. By Product

6.2.2. By Application

6.2.3. By Country

6.3. Asia Pacific: Country Analysis

6.3.1. China Aqueous Polyurethane Dispersion Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value & Volume

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product

6.3.1.2.2. By Application

6.3.2. India Aqueous Polyurethane Dispersion Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value & Volume

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product

6.3.2.2.2. By Application

6.3.3. Australia Aqueous Polyurethane Dispersion Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value & Volume

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product

6.3.3.2.2. By Application

6.3.4. Japan Aqueous Polyurethane Dispersion Market Outlook

6.3.4.1. Market Size & Forecast

6.3.4.1.1. By Value & Volume

6.3.4.2. Market Share & Forecast

6.3.4.2.1. By Product

6.3.4.2.2. By Application

### 6.3.5. South Korea Aqueous Polyurethane Dispersion Market Outlook

#### 6.3.5.1. Market Size & Forecast

##### 6.3.5.1.1. By Value & Volume

#### 6.3.5.2. Market Share & Forecast

##### 6.3.5.2.1. By Product

##### 6.3.5.2.2. By Application

## **7. EUROPE AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**

### 7.1. Market Size & Forecast

#### 7.1.1. By Value & Volume

### 7.2. Market Share & Forecast

#### 7.2.1. By Product

#### 7.2.2. By Application

#### 7.2.3. By Country

### 7.3. Europe: Country Analysis

#### 7.3.1. France Aqueous Polyurethane Dispersion Market Outlook

##### 7.3.1.1. Market Size & Forecast

##### 7.3.1.1.1. By Value & Volume

##### 7.3.1.2. Market Share & Forecast

##### 7.3.1.2.1. By Product

##### 7.3.1.2.2. By Application

#### 7.3.2. Germany Aqueous Polyurethane Dispersion Market Outlook

##### 7.3.2.1. Market Size & Forecast

##### 7.3.2.1.1. By Value & Volume

##### 7.3.2.2. Market Share & Forecast

##### 7.3.2.2.1. By Product

##### 7.3.2.2.2. By Application

#### 7.3.3. Spain Aqueous Polyurethane Dispersion Market Outlook

##### 7.3.3.1. Market Size & Forecast

##### 7.3.3.1.1. By Value & Volume

##### 7.3.3.2. Market Share & Forecast

##### 7.3.3.2.1. By Product

##### 7.3.3.2.2. By Application

#### 7.3.4. Italy Aqueous Polyurethane Dispersion Market Outlook

##### 7.3.4.1. Market Size & Forecast

##### 7.3.4.1.1. By Value & Volume

##### 7.3.4.2. Market Share & Forecast

##### 7.3.4.2.1. By Product

- 7.3.4.2.2. By Application
- 7.3.5. United Kingdom Aqueous Polyurethane Dispersion Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value & Volume
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Product
    - 7.3.5.2.2. By Application

## **8. NORTH AMERICA AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
  - 8.2.1. By Product
  - 8.2.2. By Application
  - 8.2.3. By Country
- 8.3. North America: Country Analysis
  - 8.3.1. United States Aqueous Polyurethane Dispersion Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value & Volume
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Product
      - 8.3.1.2.2. By Application
  - 8.3.2. Mexico Aqueous Polyurethane Dispersion Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value & Volume
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Product
      - 8.3.2.2.2. By Application
  - 8.3.3. Canada Aqueous Polyurethane Dispersion Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value & Volume
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Product
      - 8.3.3.2.2. By Application

## **9. SOUTH AMERICA AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**



## 9.1. Market Size & Forecast

### 9.1.1. By Value & Volume

## 9.2. Market Share & Forecast

### 9.2.1. By Product

### 9.2.2. By Application

### 9.2.3. By Country

## 9.3. South America: Country Analysis

### 9.3.1. Brazil Aqueous Polyurethane Dispersion Market Outlook

#### 9.3.1.1. Market Size & Forecast

##### 9.3.1.1.1. By Value & Volume

#### 9.3.1.2. Market Share & Forecast

##### 9.3.1.2.1. By Product

##### 9.3.1.2.2. By Application

### 9.3.2. Argentina Aqueous Polyurethane Dispersion Market Outlook

#### 9.3.2.1. Market Size & Forecast

##### 9.3.2.1.1. By Value & Volume

#### 9.3.2.2. Market Share & Forecast

##### 9.3.2.2.1. By Product

##### 9.3.2.2.2. By Application

### 9.3.3. Colombia Aqueous Polyurethane Dispersion Market Outlook

#### 9.3.3.1. Market Size & Forecast

##### 9.3.3.1.1. By Value & Volume

#### 9.3.3.2. Market Share & Forecast

##### 9.3.3.2.1. By Product

##### 9.3.3.2.2. By Application

## **10. MIDDLE EAST AND AFRICA AQUEOUS POLYURETHANE DISPERSION MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value & Volume

### 10.2. Market Share & Forecast

#### 10.2.1. By Product

#### 10.2.2. By Application

#### 10.2.3. By Country

### 10.3. MEA: Country Analysis

#### 10.3.1. South Africa Aqueous Polyurethane Dispersion Market Outlook

##### 10.3.1.1. Market Size & Forecast

- 10.3.1.1.1. By Value & Volume
- 10.3.1.2. Market Share & Forecast
  - 10.3.1.2.1. By Product
  - 10.3.1.2.2. By Application
- 10.3.2. Saudi Arabia Aqueous Polyurethane Dispersion Market Outlook
  - 10.3.2.1. Market Size & Forecast
    - 10.3.2.1.1. By Value & Volume
  - 10.3.2.2. Market Share & Forecast
    - 10.3.2.2.1. By Product
    - 10.3.2.2.2. By Application
- 10.3.3. UAE Aqueous Polyurethane Dispersion Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value & Volume
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Product
    - 10.3.3.2.2. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Recent Developments
- 12.2. Product Launches
- 12.3. Mergers & Acquisitions

## **13. GLOBAL AQUEOUS POLYURETHANE DISPERSION MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Product

## **15. PESTLE ANALYSIS**

## **16. PRICING ANALYSIS**

## **17. COMPETITIVE LANDSCAPE**

### **17.1. BASF SE**

- 17.1.1. Business Overview
- 17.1.2. Company Snapshot
- 17.1.3. Products & Services
- 17.1.4. Financials (As Reported)
- 17.1.5. Recent Developments

### **17.2. Lamberti S.p.A.**

### **17.3. Alberdingk Boley**

### **17.4. C. L. HAUTHAWAY & SONS CORP**

### **17.5. Covestro AG**

### **17.6. DSM Corporation**

### **17.7. Wanhua Chemical Group**

### **17.8. Lanxess AG**

### **17.9. Stahl Holding**

### **17.10. Chase Corp**

## **18. STRATEGIC RECOMMENDATIONS**

## **19. ABOUT US & DISCLAIMER**

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