

Acrylic Emulsions Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Polymer & Copolymer and Pure Acrylic), By Application (Paints & Coatings, Adhesives & Sealants, Construction Additives, Paper Coatings, Others), By Region and Competition, 2019-2029F

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Abstracts

Global Acrylic Emulsions Market was valued at USD10.85 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.23% through 2029. Acrylic emulsion belongs to the group of polymer emulsions. These emulsions are composed of acrylic paints that form a water-resistant film after drying. They are added to paints as an additive to enhance properties such as abrasion resistance, resistance to fungi and algae, and washability. Pure acrylic emulsion appears in a cloudy, highly concentrated form and should be measured in this original state. Water-based acrylic polymer emulsions can be created using various monomers such as methyl methacrylate, butyl acrylate, 2-Ethylhexyl acrylate, acrylic acid, and methyl acrylate.

By carefully selecting the monomers, polymers with specific properties suitable for a wide range of applications can be tailored. The excellent adhesive and waterproofing qualities of acrylic emulsion make it useful in the textile industry for lamination, non-woven materials, and flannelette blankets. In civil engineering, it can be utilized for items like cement mortar, caulk, and elastic cement, while water-based paints find application as surface coatings for both indoor and outdoor use.

Dilution of the emulsion can lead to changes in particle formation, stability, and droplet size. Particle size, concentration, and distribution are important factors that impact the



functionality and workability of the emulsion. Acrylic emulsions with fine particles have a larger surface area, resulting in stronger interactions with thickeners. Particle size also affects the viscosity of the emulsion, with larger particles yielding lower viscosity and smaller particles yielding higher viscosity. Acrylic paints are available in gloss or matte finishes and find common use in techniques like grattage, where they can be easily peeled from the surface. Depending on the amount of water added and the use of gels, mediums, or pastes, finished acrylic paintings can resemble watercolor, oil paintings, or gouache. Acrylic paint finds application in various industries such as Paints Coatings, Sealants Adhesives, Construction Additives, Paper Coating, and Cosmetics.

The growth of the Global Acrylic Emulsions Market is primarily driven by the increasing construction industry and the corresponding rise in infrastructure development. Acrylic waterproofing polymers are used in the manufacturing of various coatings. These coatings, made with acrylic polymers, are commonly employed for waterproofing roofs, toilets, water tanks, and swimming pools. The polymer used is typically a hybrid system of modified acrylic. These waterproofing polymers are utilized for crack patching in rehabilitation operations. For instance, Thurs SA-50 Acrylic Waterproofing Polymer Binder SA-50, which is a water-based styrene-acrylic emulsion polymer used in paints. It exhibits good adherence on cement-plastered surfaces and previously painted surfaces. The advantages of emulsion paints, such as quick drying, easy application, and low cost, are boosting the consumption of acrylic emulsions.

Acrylic emulsions are characterized by high adhesion force, high drying velocity, excellent fixation, glossy transparent film, and excellent machinability, which make acrylic emulsion paint suitable for a wide range of applications. Thus, the extensive applications of acrylic emulsions in industries such as Paints Coatings, Sealants Adhesives, Construction Additives, Paper Coating, and Cosmetics are fueling the demand for the Global Acrylic Emulsions Market. The increasing infrastructure development in emerging countries and the growth of the Construction and manufacturing industry are propelling the expansion of the Global Acrylic Emulsions Market.

Key Market Drivers

Growing Demand of Acrylic Emulsions in Paints Coatings Industry

Acrylic emulsions deliver excellent performance properties that contribute to the enhanced longevity of coatings. With good durability, color retention, and resistance to



UV degradation, acrylic emulsions ensure that coatings maintain their quality over time. These emulsions exhibit superior adhesion to various substrates, making them ideal for use on concrete, wood, metal, and plastic surfaces. These properties meet the stringent requirements of end-users, driving the demand for acrylic emulsions.

The global paints and coatings industry is witnessing an increasing shift towards sustainable and environmentally friendly solutions. As concerns regarding volatile organic compounds (VOCs) and other harmful emissions rise, acrylic emulsions provide a viable alternative. Compared to solvent-based systems, acrylic emulsions have a lower VOC content, significantly reducing emissions and minimizing their environmental impact.

Regulatory frameworks implemented by governments worldwide, such as the European Union's REACH regulation and the U.S. Environmental Protection Agency's VOC regulations, have encouraged the adoption of low-VOC or VOC-free coatings. Acrylic emulsions, with their low VOC content and environmentally friendly nature, align well with these regulations, driving their demand in the paints and coatings industry.

Consumer preferences and aesthetics also play a crucial role in driving the demand for acrylic emulsions. As consumers increasingly seek visually appealing and sustainable products, acrylic emulsion-based coatings offer a wide range of color options, gloss levels, and decorative finishes. The compatibility of acrylic emulsions with pigments allows for vibrant and long-lasting colors that enhance the aesthetics of painted surfaces.

Acrylic emulsions enable the formulation of coatings with different sheen levels, from high gloss to matte, catering to diverse design preferences. The ability to achieve various decorative effects, such as metallic finishes or textures, has also contributed to the growing popularity of acrylic emulsion-based coatings among consumers.

Innovation and research and development (RD) efforts remain fundamental drivers of the global acrylic emulsions market. Manufacturers continuously invest in RD to develop new formulations, improve performance characteristics, and explore novel applications for acrylic emulsions. This focus on innovation allows for the development of advanced acrylic emulsion technologies that meet evolving industry needs and customer demands.

RD activities also contribute to enhancing the sustainability profile of acrylic emulsions by developing eco-friendly alternatives, improving production processes, and reducing



waste generation. These continuous innovations drive the adoption of acrylic emulsions in the paints and coatings industry and further bolster market growth.

Growing Demand of Acrylic Emulsions in Automotive Industry

Automotive coatings demand exceptional performance characteristics to withstand the harshest environmental conditions, including prolonged exposure to UV radiation and mechanical stress. In this regard, acrylic emulsions emerge as a standout choice, offering outstanding durability, exceptional weather resistance, and remarkable color retention properties. These qualities make acrylic emulsions an ideal solution for automotive applications, ensuring long-lasting and high-quality coatings on various substrates such as metal, plastic, and composites.

Beyond their durability, acrylic emulsions exhibit superior flexibility, enabling the coatings to endure temperature variations, vibrations, and impacts. This resilience plays a crucial role in safeguarding the vehicle's surface from scratches, chips, and corrosion, ultimately contributing to an extended lifespan and enhanced aesthetics.

Acrylic emulsion-based coatings actively contribute to the ongoing lightweighting efforts in the automotive industry. By utilizing lightweight materials in vehicle designs, manufacturers aim to reduce overall vehicle weight and enhance fuel efficiency. Acrylic emulsions facilitate the production of coatings that provide excellent coverage even with thinner film thicknesses, resulting in a lighter coating system overall.

The use of acrylic emulsions in automotive coatings aligns with the industry's goals of achieving fuel efficiency standards and reducing carbon emissions. By adopting lightweight coatings, vehicles can achieve improved fuel economy without compromising performance or appearance.

Acrylic emulsion-based coatings allow for various decorative effects, including metallic finishes, pearlescent effects, and custom designs, catering to the ever-evolving demands of customers seeking unique and personalized vehicles. As the automotive industry places an increasingly strong emphasis on sustainability and reducing its environmental impact, acrylic emulsions prove to be a fitting choice. Compared to solvent-based coatings, acrylic emulsions have lower volatile organic compound (VOC) content, leading to reduced VOC emissions and improved air quality.

Key Market Challenges



Variation in Prices of Raw Materials

Raw materials play a crucial role in the production of acrylic emulsions. These emulsions are widely used in various industries, including paints, adhesives, textiles, and coatings. Key raw materials such as monomers, solvents, and additives are essential components that determine the quality and performance of acrylic emulsion-based products.

The availability and pricing of these raw materials are subject to various factors that can lead to fluctuations in their prices. Supply and demand dynamics, geopolitical tensions, natural disasters, and changes in global economic conditions are some of the factors that can impact the raw material prices. These price fluctuations directly impact the overall production costs of acrylic emulsions.

When the prices of raw materials increase, manufacturers face higher production costs, which may eventually lead to an increase in the final product prices. This can pose challenges for manufacturers in terms of maintaining competitive pricing and profitability. They need to carefully manage their cost structures and seek ways to optimize their production processes to mitigate the impact of rising raw material prices.

The unpredictability of raw material prices makes it difficult for manufacturers to plan and forecast their production costs accurately. Rapid price fluctuations can disrupt supply chains and affect long-term business strategies. Manufacturers may have to constantly adjust their procurement strategies, negotiate with suppliers, or seek alternative raw materials to mitigate the impact of price variations.

The global COVID-19 pandemic has further exacerbated the challenge of raw material price fluctuations. The disruption in global supply chains, reduced production capacities, and increased demand volatility have all contributed to supply shortages and price spikes for various raw materials. Manufacturers in the acrylic emulsions market are facing additional uncertainties and complexities in maintaining a stable cost structure.

In order to navigate these challenges, manufacturers need to stay informed about the market dynamics, closely monitor raw material prices, and establish strong relationships with suppliers. They may also explore options such as local sourcing, diversifying their raw material suppliers, or investing in research and development to find alternative materials or processes that can help mitigate the impact of price fluctuations..

Key Market Trends



Growing Use of Acrylic Emulsions in Textile Industry

Acrylic emulsions offer exceptional versatility and performance when used in textile coatings. These emulsions, which consist of acrylic polymers dispersed in water, can be formulated to provide specific functionalities, such as water repellency, stain resistance, flame retardancy, and antimicrobial properties. By incorporating acrylic emulsions into textile coatings, manufacturers can not only enhance the durability, functionality, and aesthetics of fabrics but also meet the evolving demands of various industries.

The use of acrylic emulsions in textile coatings enables the production of high-quality fabrics that are not only resistant to wear, tearing, and fading but also exhibit superior performance characteristics. These emulsions provide excellent adhesion to a wide range of textile substrates, including natural fibers like cotton and synthetic fibers like polyester. This versatility allows acrylic emulsion-based textile coatings to meet the diverse needs of industries such as apparel, home textiles, and technical textiles.

In addition to textile coatings, acrylic emulsions have found application in textile printing and dyeing processes. These emulsions can act as binders, providing excellent color fastness and durability to printed or dyed fabrics. The use of acrylic emulsions as binders in printing pastes or dyeing baths enhances the adhesion of dyes to the fabric, resulting in vibrant and long-lasting colors. Acrylic emulsions offer advantages such as improved color consistency, reduced bleeding, and enhanced print definition, contributing to better printing and dyeing efficiency.

The exceptional versatility, performance, and eco-friendly nature of acrylic emulsions make them a preferred choice for textile coatings, printing, and dyeing processes. With their ability to enhance fabric durability, functionality, and aesthetics while meeting sustainability goals, acrylic emulsion-based solutions are driving innovation in the textile industry.

Segmental Insights

Type Insights

Based on the category of type, the polymer copolymer emerged as the fastest growing segment in the global market for acrylic emulsions in 2023. This is due to the wide usage of these emulsions in the manufacture of water-based coatings for architectural paints and coating applications, as well as solvent-based emulsions for industrial



coatings. An emulsion is a colloidal suspension of tiny solid particles in a liquid medium. It is similar to the concept of milk, where the fat globules are suspended in water. Most solids, when finely divided, tend to remain in suspension in a liquid due to the balance of forces acting on them.

A polymer, on the other hand, is a larger molecule made up of smaller and simpler chemical units, often arranged in a chain-like formation. Polymer emulsions are essentially the suspension of these polymer chains in a liquid medium. When the liquid medium evaporates, the suspended polymer solids come closer together, gradually forming larger chains and eventually a continuous film.

The versatility of emulsions extends to the field of paint production, where a paint can be formulated by pigmenting a polymer emulsion. The specific type of polymer used in the emulsion determines the characteristics and properties of the final paint or medium. For instance, acrylic polymers are commonly used in the production of acrylic paints, while vinyl polymers find their application in vinyl paints.

By understanding the complex interplay between emulsions, polymers, and paint formulation, manufacturers can create coatings that exhibit desired performance attributes, such as durability, adhesion, and color stability.

Application Insights

The paints coatings segment is projected to experience rapid growth during the forecast period. In the residential coatings sector, water-based paints and coatings hold the largest percentage of the total paints market. This trend is expected to continue as the building and construction sector experiences rapid growth. Both public and private investments in the construction industry are on the rise, leading to a surge in demand. The construction industry is witnessing an increasing demand for the construction of both residential and non-residential buildings, further fueling its growth.

As a result, the market for acrylic emulsions is experiencing a substantial increase in demand. The unique properties of these emulsions make them the preferred choice for various coatings applications in the architectural and industrial sectors, driving the growth of the acrylic emulsions market.

Regional Insights

Asia Pacific emerged as the dominant player in the Global Acrylic Emulsions Market in

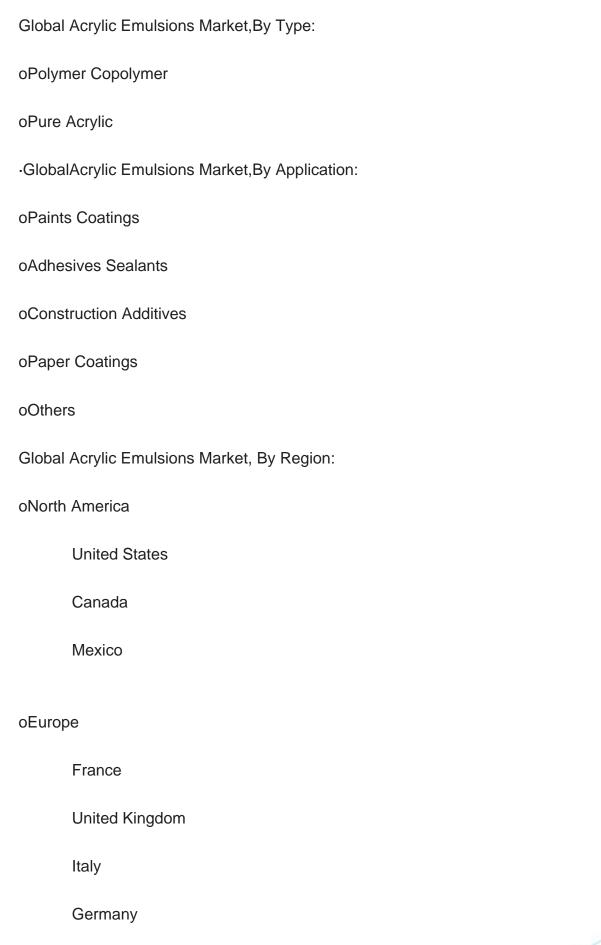


2023, holding the largest market share in terms of value. The increasing demand for building and construction in countries like China and India has led to the domination of the Asia-Pacific region in the global acrylic emulsions market. This can be attributed to the significant growth in both the commercial and residential construction industries in APAC, driven by increased investments from both government and private organizations. Acrylic emulsion, a water dispersion of polymer or co-polymer of acrylonitrile, methacrylic acid, or acrylic acid, finds wide applications in paints, lamination of paper, cardboard, plastic to cardboard, and films. Acrylic emulsion paints, being water-based, offer numerous advantages in terms of ease of use and environmental friendliness. With their versatility and durability, acrylic emulsion paints have become a popular choice in the construction industry.

have become a popular choice in the construction industry.
Key Market Players
BASF SE
Synthomer Plc.
The Dow Chemical Company
Celanese Corporation
Lubrizol Corporation
3M Co.
Arkema SA
DIC Corporation
Pexi Chem Private Limited
Gellner Industrial LLC
Report Scope:
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In this report, the Global Acrylic Emulsions Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:







	Spain	
oAsia Pacific		
	China	
	India	
	Japan	
	Australia	
	South Korea	
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	Brazil	
	Argentina	
	Colombia	
oMiddle East Africa		
	South Africa	
	Saudi Arabia	
	UAE	
Compe	etitive Landscape	

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



Available Customizations:

Global Acrylic Emulsions 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).



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