

Global Silicone Sealants Market 2024

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Abstracts

Silicone sealants play a critical role in ensuring seals in environments subject to continuous water exposure, joint movements, extreme temperature variations, requirements for potting and encapsulation, or the necessity for weatherproofing structures. These sealants are categorized into one-component and two-component systems. Despite not being the primary focus of this study, one-component silicone sealants command a larger market share. This preference is attributed to their superior flexibility, resistance to extreme temperatures and humidity, simplicity in application, thermal and electrical conductivity/insulation properties, and optical clarity. The scope of this report encompasses various end-use sectors including building and construction, automotive and aerospace, marine, electrical and electronics, among others.

Room Temperature Vulcanizing (RTV) silicone sealants emerge as the most favored category within the silicone sealants market, owed to their adaptability in construction-related applications. They are distinguished by their extended shelf life, elasticity, tolerance to extreme temperatures and heat, durability, capability to accommodate considerable joint movements, and chemical inertness. RTV silicone sealants are primarily used in structural glazing, window applications, and selected industrial and sanitary applications. The market for the RTV silicone sealants segment is projected at USD 1.6 billion in 2023, with an anticipated growth to USD 2.3 billion by 2029, reflecting a Compound Annual Growth Rate (CAGR) of 5.1% during the forecast period.

The construction sector represents the largest application area for silicone sealants, driven largely by the extensive use of RTV silicone sealants in structural glazing, window applications, and sanitary applications. The market value for construction silicone sealants is estimated at USD 1.8 billion in 2023, expected to ascend to USD 2.5 billion by 2029, achieving a CAGR of 4.9% throughout the forecast period. The automotive sector stands as the second-largest application domain for silicone sealants. Silicone-based sealants have significantly contributed to making automobiles more

efficient, lighter, safer, and environmentally friendly. These sealants find applications in engine and drivetrain systems, suspension systems, electrical and electronic systems, as well as in the interior and exterior facets of automobiles.

In the Asia-Pacific region, the silicone sealants market is valued at USD 1.8 billion in 2023, with projections indicating an increase to USD 2.7 billion by 2029, marking a CAGR of 5.9% during the forecast period. The APAC region dominates the market, holding the largest share in 2023. The expansion of the silicone sealants market in this region is propelled by the escalating demand for silicone materials in automotive applications, particularly with the surge in electric car production. Additionally, the utilization of silicone Pressure-Sensitive Adhesives (PSAs) and silicone sealants in the medical devices and healthcare industry fuels market growth. The versatility of silicone allows it to be tailored for specific applications, serving as an insulator and potent dielectric material, yet capable of functioning as an effective thermal/electric conductor with the inclusion of appropriate fillers. Significantly, RTV silicone sealants are extensively employed in the building and construction sector due to their flexibility and longevity.

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the composition, end-user, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities. Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

The global baby bottle market has been extensively analyzed by categorizing it according to various sub-segments in order to provide accurate forecasts of industry size and assess trends within specific areas.

The global market for silicone sealants can be segmented by composition: RTV silicone sealants, heat cured silicone sealants, radiation curing silicone sealants, pressure sensitive silicone sealants. RTV silicone sealants was the highest contributor to the global silicone sealants market, with 37.3% share in 2023. Going forward, the heat cured silicone sealants segment is projected to witness the highest CAGR during the forecast period.

Silicone sealants market is further segmented by end-user: construction, automotive, marine, electrical and electronics, others. Construction was the highest contributor to the global silicone sealants market, with 40.2% share in 2023. Going forward, the

electrical and electronics segment is projected to witness the highest CAGR during the forecast period.

Based on region, the silicone sealants market is segmented into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. Asia-Pacific was the largest revenue contributor to the global silicone sealants market, representing 41.3% of the market in 2023. During the forecast period, Asia-Pacific is projected to witness the highest growth rate.

The report has also analyzed the competitive landscape of the global silicone sealants market with some of the key players being 3M Company, Henkel AG & Co. KGaA, H.B. Fuller Company, Avery Dennison Corporation, Momentive Performance Materials, Inc., Wacker Chemie AG, Sika AG, Dow Inc., Bostik SA, Shin-Etsu Chemical Co., Ltd., BASF SE, Elkem ASA, Pidilite Industries Limited, Tremco CPG Inc., Asian Paints Ltd., Mapei S.p.A., Master Bond Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Why Choose This Report

Gain a reliable outlook of the global silicone sealants market forecasts from 2024 to 2030 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

Market Segments Covered in Global Silicone Sealants Industry Analysis:

i.) Composition

RTV silicone sealants

Heat cured silicone sealants

Radiation curing silicone sealants

Pressure sensitive silicone sealants

ii.) End-user

Construction

Automotive

Marine

Electrical and electronics

Others

iii.) Region

North America

Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

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