

Smart Adhesives Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Technology (Water-Based, Hot-Melt, Solvent-Based, Others), By Application (Building & Construction, Automotive & Transportation, Packaging, Others), By Region

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Abstracts

Global Smart Adhesives Market is expected to expand at an impressive CAGR in the forecast period. Smart Adhesives represent a wide variety of materials that have gained significant importance in a multitude of industries ranging from building and construction to the packaging industry. Smart adhesives facilitate quick setting time, balanced humidity, and moisture resistance, and due to these beneficial attributes, they cater to many industries. Several merits that smart adhesives exhibits, such as better adhesion and cohesion and excellent binding with substrates, are the main factors driving the growth of smart adhesives for a plethora of applications. Companies operating in Global Smart Adhesives Market are developing smart and customized products that can enhance the binding properties at the nanoscale when applied to a substrate. Among significant industry segments of adhesives, coating, and sealant-based chemistry solutions, the Smart Adhesive category has enough potential to drive the growth of Global Smart Adhesive Market.

Smart Adhesives constitute materials that are safer, efficient, flexible, and responsive when used for bonding two distinct surfaces. In addition to binding things together, these materials can deliver exceptional functionality with lower costs and a higher level of performance.

Scalable Solutions in Size and Ease of Deployment

Properties like bonding, viscosity, resonance, and resilience are the ultimate desired adhesive considerations. Trivial formation of adhesives might reflect those features when applied in macro-sized molecules but not necessarily work in the case of nano-sized molecules. To bring out such innovation in adhesive-based materials, companies like Bostik SA have proposed and implemented scalable solutions which are easy to handle and deploy over smaller surfaces. This innovative advancement in Adhesive technology has provided a massive boost and added application value in adhesives across a range of categories in smart materials.

Growing Automotive Manufacturing Industry

Smart adhesives play an extremely crucial role in the automotive manufacturing industry. Because of their perfect binding property, which requires flexibility and mobility, such as contraction and expansion, smart adhesives made from hot-melt adhesive technology are widely utilized in the construction of automaker parts. The smart adhesive can connect materials with various degrees of thermal expansion. It produces strong, impact-resistant bonding with high abrasion resistance, high shear strength, and chemical and weather resistance, making it crucial in the automotive industry, which is driving the growth of the Global Smart Adhesives Market.

Recent Developments

Smart adhesives can grow into a major industry segment of adhesives, coatings, and hybrid chemistry solutions that currently are not prevailing. In the future, it might be possible that consumers to achieve layered adhesive solutions that can rectify the problems they are facing today. There are many uses of thermal, electrical, and physical displacement that will become featured in adhesives that will extend the material life and functionality of the binding objects as well as the smart adhesive itself. The advancements in microencapsulation, polymer research, and hybrid material matrix design are occurring exponentially and will likely drive the Global Adhesives Market.

Market Segmentation

Global Smart Adhesives Market is segmented based on technology, application, company, and regional distribution. Based on technology, the market is further segmented into water-based, hot-melt, solvent-based & others. Based on application, the market is divided into building & construction, automotive & transportation, packaging, & others.

Company Profiles

Arkema Group, The Dow Chemical Company, Mapei Construction Chemicals LLC, 3M Company, H.B. Fuller Company, Henkel AG & Co. KGaA, Sika Group, Huntsman International LLC, Akzo Nobel N.V., Delo Industrie Klebstoffe GmbH & Co. KGaA are among some of the major market players in Global Smart Adhesives Market.

Report Scope:

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

Smart Adhesives Market, By Technology:

Water-based

Hot-Melt

Solvent-Based

Others

Smart Adhesives Market, By Application:

Building & Construction

Automotive & Transportation

Packaging

Others

Smart Adhesives Market, By Region:

North America

United States

Mexico

Canada

Europe

United Kingdom

Germany

France

Sweden

Austria

Asia-Pacific

China

Japan

India

Indonesia

Vietnam

South America

Brazil

Colombia

Argentina

Middle East and Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Smart Adhesives Market.

Available Customizations:

With the given market data, TechSci 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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