

2024 Chemical Research Review

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Abstracts

Research Review Scope

The global chemicals industry plays a significant role in modern manufacturing, supplying essential materials for a wide range of applications, from construction and automotive to aerospace, healthcare, and consumer goods. With ongoing advancements in technology, regulatory shifts, and a growing emphasis on sustainability, the industry is undergoing a significant transformation. The demand for advanced chemicals, low-emission coatings, and circular economy initiatives is reshaping market dynamics. Additionally, automation and digitalization are streamlining production processes, improving efficiency, and reducing waste.

Among the many industries within the chemicals sector, three key areas, paints and coatings, adhesives and sealants, and adhesive-applying equipment are witnessing rapid growth. The paints and coatings market is experiencing strong growth, fueled by rising demand for construction, automotive, marine, and industrial applications. These materials serve both decorative and protective functions, safeguarding surfaces from corrosion, wear, and environmental damage. With urbanization and infrastructure development on the rise, the demand for high-performance coating continues to increase.

A major shift in the industry is the push toward sustainable formulations that reduce environmental impact. Waterborne coatings, powder coatings, and bio-based resins are becoming more prevalent as increased regulations around volatile organic compounds (VOCs) and hazardous chemicals. Companies such as PPG Industries, AkzoNobel, Sherwin-Williams, and BASF are at the forefront of developing advanced coatings that offer durability, efficiency, and eco-friendly properties. These innovations are particularly important in sectors like automotive and aerospace, where lightweight, high-strength coatings can enhance fuel efficiency and longevity.

Adhesives and sealants are increasingly replacing traditional mechanical fasteners, on account of their ability to provide lightweight, high-strength bonding solutions across industries such as automotive, aerospace, construction, electronics, and packaging. With industries focusing on reducing weight, improving durability, and enhancing energy efficiency, adhesives have become indispensable in modern manufacturing. A key trend in this market is the growing use of adhesives in electric vehicles (EVs) and lightweight composites. As automakers strive to improve vehicle efficiency, adhesives are being used to replace welding and mechanical fasteners, reducing weight without compromising safety.

As manufacturing becomes more automated and precise, the demand for advanced adhesive-applying equipment is rising. These systems are essential in automotive, packaging, electronics, and construction, where accuracy and efficiency in bonding processes are critical. With increasing production speeds and the need for consistent application, businesses are turning to robotic dispensing systems, AI-driven process controls, and smart sensors to enhance adhesive application.

Research Reviews from BCC Research provide market professionals with concise market coverage within a specific research category. This 2024 Research Review of Chemical provides a sampling of the type of quantitative market information, analysis, and guidance that BCC Research has been developing since its inception in 1971 to help its customers make informed business decisions. This Research Review includes highlights and excerpts from the following reports published by BCC Research in 2024:

CHM049H Global Markets and Advanced Technologies for Paints and Coatings

CHM048E Global Markets for Adhesives & Sealants or Joining and Fastening

CHM073E Adhesives and Adhesive-Applying Equipment: Technologies and Global Markets

After you survey the excerpts in this Research Review, we encourage you to follow up on these topics by checking out the full market research reports associated with each topic. BCC Research looks forward to serving your market intelligence needs in the future.

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