

The Global Market for Bio-based Coatings 2023-2033

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Abstracts

The most widely used commercial coatings are based on petroleum derivatives (resins, solvents). Due to consumer and environmental concerns, coupled with regulation, manufacturers and formulators are developing bio-based alternatives to synthetic products, identifying safer materials with a low environmental impact for protective coatings.

Over the past decade, the coatings industry has increasingly introduced eco-friendly technologies, such as processes involving UV-cure, treatments with less or no solvents, waterborne products, hyperbranched, and high solid coatings to achieve high-performance coatings. This is now being supplemented by the production of coatings centred on bio-based materials in order to obtain a treatment that is sustainable from both the point of view of the production process and the raw materials used. Many producers have introduced bio-based alternatives in product formulations, replacing fossil-based compounds that possess similar properties, and also potentially have wider applications.

Growing pressure to comply with stringent health and safety legislation and demonstrate a reduced environmental impact is also compelling manufacturers to progressively introduce bio-derived alternatives to traditional chemicals. All ten of the top ten coatings companies by global sales now offer eco-friendly products with low-VOC emissions, and the reduction or replacement of traditional solvents, resins and pigments is now a high priority.

Report contents include:

Market drivers and trends in bio-based coatings.

Analysis of types of fully or partly bio-based paints and coatings. Types covered

include biobased versions of Alkyd resins, Polyurethanes, Epoxy resins, Acrylic resins and Poly (lactic acid) (PLA) coatings, Polyhydroxyalkanoates (PHA) coatings, Cellulose-based coatings, Lignin coatings, Rosins, Bio-based carbon black, edible coatings, algal coatings, protein coatings and nanocoatings.

Government policy & regulations.

Global revenues, by coating type and market, historical and forecast to 2033.

Competitive landscape for bio-based coatings.

158 company profiles. Companies profiled include Danimer Scientific, Earthodic, Ecoat, Kelpi, Melodea, NXTLEVVEL Biochem, Orineo, Relement, Slibio Coating, Stora Enso, Sufresca and Traceless.

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