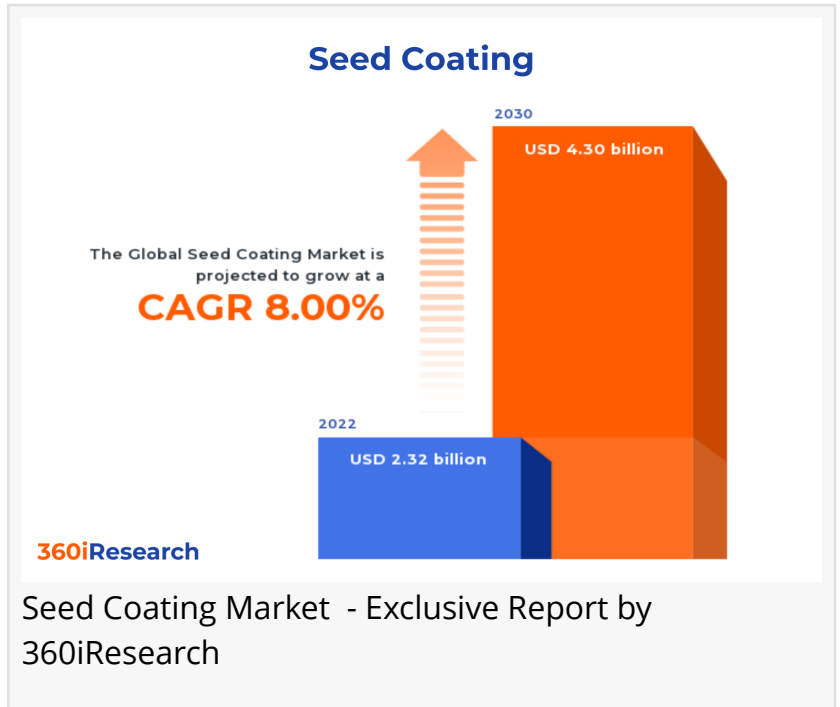


# Seed Coating Market worth \$4.30 billion by 2030, growing at a CAGR of 8.00% - Exclusive Report by 360iResearch

*The Global Seed Coating Market to grow from USD 2.32 billion in 2022 to USD 4.30 billion by 2030, at a CAGR of 8.00%.*

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-- The "[Seed Coating Market](#) by Additive (Active Ingredients, Binders, Colorants), Process (Encrusting, Film Coating, Pelleting), Form, Crop Type - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Seed Coating Market to grow from USD 2.32 billion in 2022 to USD 4.30 billion by 2030, at a CAGR of 8.00%.



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Seed coating is a process used in agriculture to enhance the growth environment of seeds by applying a protective layer or treatment to them. This technique serves several purposes designed to improve planting efficiency and support the early stages of germination. Coatings can contain a variety of materials, including fertilizers, pesticides, growth enhancers, polymers, colorants, and other beneficial additives. Increasing demand for food products to meet the requirements of a growing population and growing demand for high-quality seeds in the agricultural sector is driving the market growth. Moreover, the potential demand for protecting the seed from disease and pests is fueling the market growth. Fluctuations in raw materials prices in seed coating manufacturing and compatibility issues with seed coating technologies restrict market growth. Growing advancements in seed coating technologies and the rising adoption of precision farming practices present ample opportunities for market expansion.

**Additive:** Rising demand for seed protectants to increase seed survival during storage and early growth stages

Active ingredients in seed coating processes are typically used to enhance pest resistance, increase nutrient absorption rates, and offer other benefits to the seed. They can range from natural biochemicals to synthetic compounds designed to improve seed viability and productivity. Active ingredients include phytoactive promoters and protectants. Phytoactive promoters are bio-stimulative components that boost germination rates and overall seedling health. By enhancing or modifying plant physiological activities, these promoters contribute to seed vigor, leading to stronger, more robust plant development. Phytoactive promoters may include hormones such as cytokinins, auxins, and gibberellins. Seed protectants, also known as seed treatments or protectants, protect seeds from adverse biotic and abiotic factors. These typically include fungicides, insecticides, and nematicides, aiming to increase seed survival during storage and early growth stages. Binders are additives that ensure all the beneficial ingredients adhere to the seed surface and remain in place during handling, storage, and application processes. Colorants are used in seed coating for aesthetic appeal and to visually differentiate seed types or treatments. Beyond this, their vibrant colors often serve as a means of deterring pests or birds. They must be nontoxic and harmless to the seeds and to the environment. Coating seeds with Minerals or Pumice can provide physical protection and nutritional benefits to the seed. These can improve seeds' water-holding capacity or provide trace minerals necessary for germination and growth. Polymers play multiple roles in seed coating. They can work as binding agents, encapsulating the other ingredients onto the seed surface. They can also help regulate moisture uptake and provide a smooth or textured finish to the seed, aiding in mechanical planting or flowability.

**Crop Type:** Growing utilization of seed coating for vegetables, leading to better crop yield

The adoption of seed coating in cereals & grains cultivation resulted in improved uniformity, managed pests, and reduced risks of infectious diseases. In flowers & ornamentals, seed coating allows for a greater successful germination rate, encompassing species that typically require specific conditions to thrive. Seed coating also enhances the color and aesthetics of these horticultural products, ensuring higher market value and consumer appeal. Seed coating is vital in cultivating oilseeds and pulses, improving pest resistance, and promoting healthier growth. Applying micronutrients and specific fungicides through seed coatings enables effective protection, increasing yield and quality. Using strong seed coatings to turf & forage grasses enhances the resistance against physical damage during handling and sowing, resulting in better establishment rates and improved resilience against insects and disease pathogens. This is advantageous in terms of the longevity and vitality of the grass. Vegetables benefit from seed coating, particularly those with small seeds or requiring precise seeding depths. Coating improves the handling, sowing, and broadcasting processes, besides increasing the nutrient uptake efficiency due to slow and sustained nutrient release, ultimately leading to better crop yields. In conclusion, seed coating is central in differentiating the yield and quality across crop types. Through analytical comparison, it is evident that each crop type unequivocally benefits from strategic seed coating applications while having specific needs and responses.

**Form:** Growing preference for liquid seed coating for better coverage with less time and efforts. Liquid seed coating involves using a liquid substance applied to the seed's exterior. These exterior layers can offer nutrients, inhibitors, growth hormones, or fungicides, aiding seed protection, germination, and growth. In powder seed coating, the coating substance is in powdered form. This form allows the use of various substances, including fertilizers, antimicrobial agents, and coloring agents designed for better seed identification. Powder coatings ensure a thicker and more controlled layer of protective coating. Liquid seed coating typically offers better coverage with less time and effort, but there might be challenges with storage and potential oversaturation. On the other hand, powder coating allows more substance options and a more controlled coating layer, but the application can be laborious, and there's the potential challenge of dust off.

**Process:** Rising adoption of film coating for small and irregularly shaped seeds. Encrusting involves a layer of materials such as clay, talc, or lime enveloping the seed to achieve a spherical shape, helping to ensure even distribution when seeding. This process directly integrates active ingredients such as treatment chemicals, fertilizers, and growth-promoting agents onto the seed surface. Although encrusting requires a significant amount of material, resulting in larger and heavier seeds, it enhances sowing efficiency and seed protection. Film coating uses a thin layer of polymer applied to the seed surface to secure active ingredients. It results in a smooth, dust-free seed surface, ideal for small and irregularly shaped seeds. This method holds benefits, including lower dust off, improved flowability, compatibility with seedling equipment, and possibly incorporating crop protection chemicals. Pelleting, an extension of encrusting, uses multiple layers of clay or other binders around the seed to create a larger, round pellet. This process allows even dispersal of active ingredients and provides robust mechanical protection. Pelleting is particularly beneficial for tiny, lightweight seeds, facilitating precision planting, enhancing seedling establishment, and promoting uniform germination. In summary, each seed coating technique has its unique set of advantages, and the choice heavily depends on the seed type, required protection levels, and the specific needs of the farming operation. These seed enhancement methods boost crop yields and ensure the effective use of inputs, resulting in environmentally friendly and sustainable farming.

#### Regional Insights:

In the Americas, particularly in North America, there is a high demand for seed coating materials due to the advanced agricultural practices and major agricultural countries such as the United States and Canada. The need for high-yield crops and precision farming drives the demand. Seed coating technologies that protect against pests and diseases and boost germination rates are particularly popular. There is a noticeable trend towards sustainability, with a growing inclination for biological seed treatments. The Asia-Pacific region is witnessing a rapidly growing demand for seed coating materials, primarily due to the expansion of agricultural activities in countries such as India, China, and Australia. The focus is mainly on increasing agricultural productivity to feed the growing population. The region favors seed coating solutions that enhance efficiency in drought tolerance and nutrient use. The EMEA region presents a diverse market due to the

variety of climates and agricultural practices. In Europe, stringent regulations on the use of agrochemicals are shaping the demand for eco-friendly and non-toxic seed coating materials. There is a strong drive for innovation in seed technologies to comply with these regulations. The Middle East shows a growing interest in coatings that can improve water utilization efficiency, imperative for agriculture in arid conditions. In Africa, the focus is on affordable seed coatings that can enhance crop resilience and yield in the face of challenging growing conditions and limited farming resources.

#### FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Seed Coating Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

#### Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Seed Coating Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

#### Key Company Profiles:

The report delves into recent significant developments in the Seed Coating Market, highlighting leading vendors and their innovative profiles. These include Aegilops Applications, AGCO Corporation, Azelis group, BASF SE, Brett-Young Seeds Limited, Chromatech Incorporated, Cistronics Technovations Pvt Ltd, Clariant AG, Covestro AG, CR Minerals Company, LLC, Croda International PLC, Globachem NV, Kenobie Inc., Milliken Chemical Company, Prebbles Turf World, Precision Laboratories LLC, Rallis India Limited, Seed Dynamics, Inc., Seedpoly Biocoatings Pvt Ltd., Sensient Technologies Corporation, Smith Seed Services, Solvay SA, Summit Seed Coatings, Syngenta Crop Protection AG, Universal Coating Solutions, and Yara International ASA.

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#### Market Segmentation & Coverage:

This research report categorizes the Seed Coating Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Additive, market is studied across Active Ingredients, Binders, Colorants, Minerals/Pumice, and Polymers. The Active Ingredients is further studied across Phytoactive Promoters and Protectants. The Active Ingredients is projected to witness significant market share during forecast period.

Based on Process, market is studied across Encrusting, Film Coating, and Pelleting. The Film Coating is projected to witness significant market share during forecast period.

Based on Form, market is studied across Liquid and Powder. The Liquid is projected to witness significant market share during forecast period.

Based on Crop Type, market is studied across Cereals & Grains, Flowers & Ornamentals, Oilseeds & Pulses, Turf & Forage Grasses, and Vegetables. The Flowers & Ornamentals is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 38.73% in 2022, followed by Asia-Pacific.

#### Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Seed Coating Market, by Additive
7. Seed Coating Market, by Process
8. Seed Coating Market, by Form
9. Seed Coating Market, by Crop Type
10. Americas Seed Coating Market
11. Asia-Pacific Seed Coating Market
12. Europe, Middle East & Africa Seed Coating Market
13. Competitive Landscape
14. Competitive Portfolio

## 15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Seed Coating Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Seed Coating Market?
3. What is the competitive strategic window for opportunities in the Seed Coating Market?
4. What are the technology trends and regulatory frameworks in the Seed Coating Market?
5. What is the market share of the leading vendors in the Seed Coating Market?
6. What modes and strategic moves are considered suitable for entering the Seed Coating Market?

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