

Redox broadens nitrogen strategy with new RDX-Flex foliar formulation

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The new RDX-Flex formulation extends Redox's nitrogen technology platform beyond planting, giving growers another application window to support nitrogen utilisation, crop performance and quality



Redox Bio-Nutrients is expanding its patented nitrogen technology platform with RDX-Flex, a new foliar formulation designed to give growers greater flexibility in how they incorporate nitrogen-utilisation technology into crop nutrition programmes. The product follows the company's RDX-N technology and represents a move from an application strategy centred on planting towards additional opportunities later in the growing season.

Redox describes RDX-Flex as a distinct 10 per cent urea nitrogen formulation developed specifically for foliar application. The product uses the same patented botanical-extract technology incorporated in RDX-N, which the company says works within the plant to support natural processes associated with nitrogen assimilation and its conversion into amino acids and other compounds involved in plant growth, yield and crop quality.

Extending the nitrogen window

The development of RDX-Flex reflects a broader effort to give growers more flexibility in managing nitrogen throughout the crop cycle. RDX-N is applied to the soil at planting, while RDX-Flex is designed for later foliar applications. The two products can therefore occupy different points in a crop's nitrogen-management programme, allowing growers to use either formulation independently or combine them depending on the crop, fertility strategy and application programme.

"RDX-Flex represents the next step in more than a decade of advancement in our nitrogen technology," said Darin Moon, founder, owner and CEO of Redox Bio-Nutrients. "It gives growers more flexibility in how and when they put this technology to

work, creating additional opportunities to support nitrogen utilization, yield and crop quality throughout the season.”

The distinction is important in a market where nitrogen management increasingly involves more than determining how much nutrient to apply. Timing, crop demand and the efficiency with which plants assimilate available nitrogen are becoming central to efforts to improve crop performance while managing input costs.

Building on RDX-N

RDX-Flex does not replace RDX-N but expands the potential application architecture around the technology. According to Redox, both products use the company’s patented botanical-extract technology and are shelf stable, effective at a low use rate and compatible with a broad range of commonly applied crop inputs. RDX-N is positioned for soil application at planting, while RDX-Flex provides a foliar option for later crop stages. The company says growers can select either product or use both as part of an existing fertility programme.

That flexibility could allow nitrogen strategies to be adjusted according to crop requirements and the timing of other agronomic interventions rather than relying on a single application window.

A broader approach to nitrogen utilisation

Redox’s latest product also reflects the shift within crop nutrition towards technologies designed to influence how efficiently plants use applied nutrients. Nitrogen remains one of the most important inputs in modern crop production, but its value depends on how effectively plants assimilate and convert the nutrient into the compounds required for growth and yield. Technologies that support those processes are increasingly being developed alongside conventional fertiliser programmes rather than positioned as standalone replacements.

RDX-Flex is being introduced within that framework, with Redox positioning the product as another tool for growers seeking to integrate nitrogen technology into existing fertility programmes. The company’s expansion from RDX-N into a complementary foliar formulation also gives its patented technology a wider application window—from planting through later stages of crop development.