



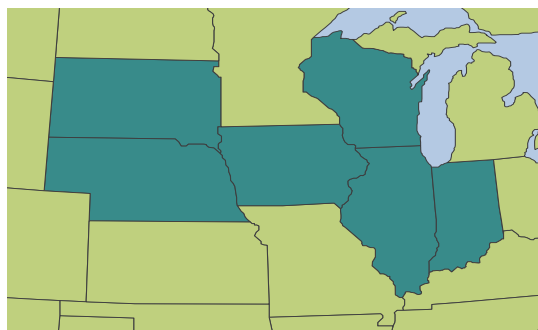
Performance Acre™ - MicroEssentials SZ® + Aspire® with PowerCoat® on Corn

Objective

- Evaluate the yield response of corn grown with PowerCoat® treated MicroEssentials SZ® (12-40-0-10S-1Zn) and Aspire® (0-0-58-0.5B).

Overview

- PowerCoat is formulated with Plant Growth Promoting Rhizobacteria (PGPR) and specifically selected strains of *Bacillus*. These microbes produce organic acids and enzymes that improve utilization of key nutrients like nitrogen (N), phosphorus (P), and potassium (K).
- MicroEssentials SZ combines N, P, two forms of sulfur (S) for season-long S availability, and Zinc (Zn) into a single nutritionally balanced granule that provides more uniform nutrient distribution than commodity blends.
- Aspire combines K and two forms of boron (B) that provide early and late season B availability to meet full season crop nutrition needs.
- By supporting a more robust root-zone and rhizosphere, PowerCoat helps improve growers Return on Fertilizer Investment (ROFI) by helping plants intercept and uptake more nutrients which helps create increased yield.



LOCATIONS: 12 trials IA, IL, IN, NE, SD, WI

Trial Details

Locations and Crop Management:

CROP: Corn (*Zea mays* L.)

YEARS: 2023-2024

DATA SOURCE: Replicated small-plot field studies conducted by university and/or independent third-party researchers

CROPPING CONDITIONS: All trials conformed to local practices

N Rate: Balanced across treatments and applied according to local recommendations as 2/3 preplant and 1/3 sidedress

P Rate: 80 lbs P₂O₅/ac applied as MicroEssentials SZ

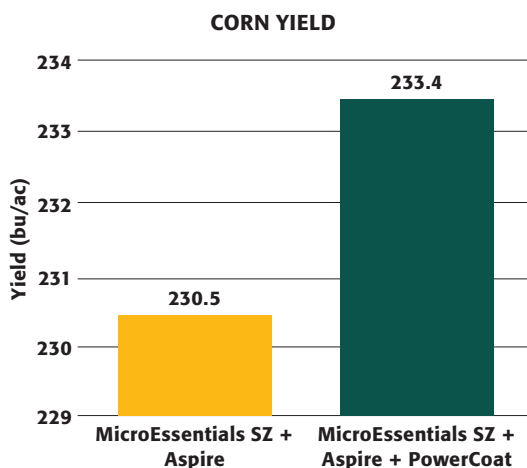
K Rate: 60 lbs K₂O/ac applied as Aspire

PowerCoat Rate: 5 oz/ac applied to preplant fertilizer

Application Timing: Preplant

Application Method: Broadcast

Results



MicroEssentials®

Aspire®

PowerCoat®

2.9
bu/ac

Yield increase with
PowerCoat applied to
MicroEssentials SZ
and Aspire

Mosaic®

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MicroEssentials SZ
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Individual results may vary, and
performance may vary from location
to location and from year to year.
This result may not be an indicator
of results you may obtain, as local
growing, soil and weather conditions
may vary. Growers should evaluate
data from multiple locations and
years whenever possible.

For more information, go to
croppnutrition.com.

ZEAMX-213-2023
ZEAMX-214-2024
ME 1679 6/2025

Summary

- PowerCoat applied to MicroEssentials SZ and Aspire increased yield 2.9 bu/ac over non-coated MicroEssentials SZ and Aspire when averaged across 12 sites in 6 states.
- Performance products used individually or in combination provide balanced crop nutrition and improved yields compared to traditional commodity blends. Using Mosaic bio crop nutrition products like PowerCoat aids in nutrient use efficiency which provides higher ROFI for growers.