

**TPA**TM

Nutrient Uptake Efficiency Enhancer



ANALYSIS (5-15-5)

WHAT IS IT?

- TPA stands for Thermo Poly Aspartate.
- Highly polymerized and negatively charged beta protein.
- Biodegradable and lasts 120 days in the soil.
- The product is available in 10L jugs, 450L and 1000L IBC's.
- Also available with PGRs.

WHEN & WHY USE IT?

- Used in starter fertilizer to reduce the binding of phosphorus with Ca^{2+} , Fe^{3+} or Al^{3+} .
- Applied in alkaline soils with high content of Ca^{2+} and in acidic soil with high levels of Fe^{3+} or Al^{3+} .
- By reducing the tie-up, TPA increases the availability of nutrients.

WHAT TO EXPECT?

- Improved root development and growth.
- Better nutrient availability and uptake visible in tissue tests.
- 20-25% better utilization of phosphorus and potassium.

Application Guidelines

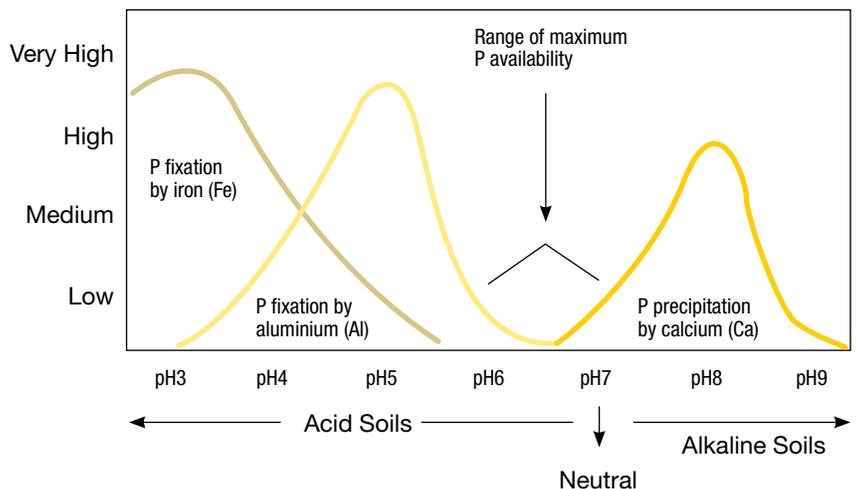
- Apply 0.77- 1.55 oz per 1000 sq feet.
- TPA can be injected into the irrigation water. (micro jet or drip).
- TPA may be used to reduce corrosion in liquid fertilizer tanks.
- It can be applied in combination with a foliar fertilizer program.
- TPA is for use on a variety of crops, including turf.
- Can be combined with other fertilizer mixes and pesticides.
- A jar test is recommended especially if the desired combination has not been previously used.

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Effect of TPA on root growth.

Amount of P fixed in soil



866-860-9660 / omexcanada.com

290 Agri Park Road, Oak Bluff, MB R4G 0A5