



UNLOCK SOIL PHOSPHORUS



#InnovationImpact

What does it do?

Applying Phosta to soil with adequate moisture significantly improves the availability of phosphorus by binding up calcium ions, making soil phosphate more readily available by preventing the calcium from reacting it.

It also releases trace elements such as copper and zinc, improving soil health and plant growth.

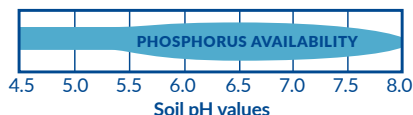


Phosphorus - Availability influenced by:

pH: Precipitated in most pHs very quickly

Moisture: Drier conditions reduce mobility and increase precipitation

Temperature: A change in soil temperature from 21°C to 13°C reduces the availability of phosphorus by 70%



Benefits

- Significantly improves P availability
- Releases trace elements essential for plant growth e.g. copper, zinc, manganese, molybdenum etc
- Improves plant growth
- Can be applied with pre-em residuals
- Can be applied with a conventional crop sprayer – no need for extra costly equipment
- Phosta can provide benefits to crops grown on any P index soils
- Easily tank mixed and compatible with many other products



Application

Crop	Timing	Phosta rate (l/ha)	Water volume (l/ha)
Winter Cereals	Pre-drilling to GS29 (end of tillering) Do not apply in frost or to cold soils.	2.0	150 - 200
Spring Cereals	Pre-drilling to GS29 (end of tillering) Do not apply after soils begin to dry.	2.0	150 - 200
Potatoes (at planting)	Apply within the potato ridges. Low to medium calcareous soil types – 2.0 l/ha Apply without Silwet L-77. High calcareous soil situations – 4.0 l/ha Apply without Silwet L-77.	2.0 - 4.0	200 - 400
Potatoes (over ridges)	At planting to GS07 (beginning of stem formation) Apply to beds with Silwet L-77 at 0.05% v/v	4.0	200
Oilseed Rape	Pre-drilling to GS14 (4 leaves unfolded)	2.0	150 - 200
Maize	Pre-drilling to GS13 (3 leaves unfolded)	2.0	200
Sugar Beet	Pre-drilling to GS14 (4 leaves unfolded)	4.0	200
Leaf Vegetables	Pre-drilling to GS14 (4th true leaf unfolded)	4.0	200
Root Vegetables	Pre-drilling to GS14 (4th true leaf unfolded)	4.0	200

Application advice

Tank mix sequence: First

Nozzle type: Medium/course or as dictated by partner pesticide

Adjuvant choice: Speak to your local Agrovista agronomist.

Application timing

In order for Phosta to be most effective it must be present in the rooting zone crop. Therefore applications prior to drilling are advised where the drill promotes incorporation of Phosta in the seed zone.



Results

Summary

Variety	Crop	Seed type	Untreated	Phosta treated
Cordiale	WW	Deep loam	8.8b	9.5a
Santiago	WW	Silt over chalk	10.5b	11.1a
Cordiale	WW	Sandy loam over chalk	7.9a	8.4c
Pearl	W Barley	Calcareous clay over limestone	7.3c	7.7a
Westminster	S Barley	Coarse loam over sand	5.9a	6.2a
Odessa	S Barley	Sandy loam over chalk	6.4a	6.8b
Kentaurus	Maize	Silty loam over clay	3.9d*	5.7b*
Beacon	Maize	Coarse loam over sandstone	10.3b*	13.6a*
Avatar	WOSR	Loamy clay over clay	4.0d	4.3bcd
Quartz	WOSR	Fine loam over clay	3.8d	4.2c
Russett Burbank	Potatoes	Sandy loam over chalk	58.7e	67.7bc
Russett Burbank	Potatoes	Sandy loam over chalk	57.8f	70.8ab

*Dry matter



Phosta is a proprietary, soil-applied agent that works to protect newly applied phosphate from soil lock-up and to release fixed forms of phosphorus present in the soil.

Its novel mode of action also improves the bio-availability of other essential plant nutrients.





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Agrovista UK Limited

T: 0115 939 0202

E: enquiries@agrovista.co.uk

www.agrovista.co.uk/innovation

