



# Primac Acid Soil Cane Starter



Sandy lighter soils have always required different management practices to reach their optimum potential. Low organic matter, low PH (acid) and low Cation Exchange (C.E.C) offer up real challenges in the management of phosphorus and potassium.

In sandy acid soils iron and aluminium are very active. When water soluble phosphorus fertilizers are added to these soils, a new compound can be formed that "Ties up" the phosphorus. The young sugar cane plant can't use these compounds.

The problem with non-water soluble forms of phosphate fertilizer has always been being able to place this product at the billet or to have to incorporate it through the soil profile.

So what is new about **Primac Acid Soil Cane Starter**? This starter contains three types of phosphorus as well as silica (Si (OH) 4). The role of the silica in the starter is to protect the water soluble phosphorus. Silica does this by binding with iron and aluminium and thus allowing the phosphorus to stay plant available for longer.

The starter has a blend of water soluble, citric soluble and non-citric soluble phosphorus. This allows the phosphorus in **Primac**

**Acid soil Cane Starter** to "drip feed" into the crop over its whole growth cycle.

### Analysis

N 5.4% P 10.8%+  
K 12.5% Ca 12.0%  
Si 4.0%  
+ 6% water soluble 2.4%  
citric soluble 2.4% non-citric soluble.

### Application Rate

200kg/ha will provide 10.8kg of N, 21.6Kg of P 25kg of K plus 24kg of Ca at the billet. In the side dress a top up of N and K can be applied.

### Why split my K application?

It is more efficient to split K application on sugar cane. In acid sandy soils chemistry prevents K from being able to hold onto the soil particles. This is because aluminium has a higher charge than potassium, allowing aluminium to "kick" potassium off the soil colloid, therefore potassium is more likely to leach. Split application of K is recommended to avoid salinity effects and leaching losses.



## Customised Broadacre Blends

### BLEND One:

Madura Guano Gold- Kwik Start  
Big Z  
SOA  
Croplift MAP

Guaranteed Analysis for blend:  
Nitrogen (N) % 4.305  
Phosphorus (P) % 13.329  
Potassium (K)% 5.156  
Sulphur (S)% 3.103  
Magnesium (mg)% 0.294  
Calcium (Ca)% 12.914  
Zinc (Zn) % 2.302  
Iron (Fe)% 0.499

### BLEND Two:

Madura Guano Gold- Kwik Start  
Big Z  
SOA  
MOP

Guaranteed Analysis for blend:  
Nitrogen (N) % 11.235  
Phosphorus (P) % 5.220  
Potassium (K)% 5.574  
Sulphur (S)% 11.842  
Magnesium (mg)% 0.182  
Calcium (Ca)% 7.995  
Zinc (Zn) % 1.226  
Iron (Fe)% 0.272

### BLEND Three:

Madura Guano Gold-Kwik Start  
Starter Z

Guaranteed Analysis for blend:  
Nitrogen (N) % 5.250  
Potassium (K)% 15.510  
Sulphur (S)% 1.100  
Magnesium (mg)% 0.328  
Calcium (Ca)% 14.400  
Zinc (Zn) % 1.250  
Iron (Fe)% 0.556

**These are just a few. We can customise any blend to your requirements. Ask us to customise a blend for you !!!**





# SUGAR CANE BLENDS

Nitrogen:Phosphorus:Potassium:Sulphur:Calcium



## Custom Blend

## Description

## Analysis

		N	P	K	S	Ca
Acid Soil Starter	Guano Gold - SOA	11:	6:	0:	11:	15 with 5% Silica
Acid Soil Split P	Guano Gold - DAP	9:	16:	0:	0:	15 with 5% Silica
Acid Soil Starter High Ca	Guano Gold - CAN	8:	6:	0:	0:	24 with 5% Silica
Acid Soil Ratoon K	Guano Gold - MOP	0:	6:	25:	0:	15 with 5% Silica
Acid Soil Ratoon K & S	Guano Gold - SOP	0:	6:	20:	8:	15 with 5% Silica

**Guano Gold contains non water soluble P in a granular form. This allows the P in Guano Gold to remain plant available in soils which have high Fe or Al. Guano Gold also contains 29% Ca and 10% Silica.**

Madura

## Guano Gold

**"Kwik Start" natural and available Phosphorus, Calcium and Silica**  
**Key Benefits of Guano Gold for pastures**

- Naturally occurring and available phosphorus and calcium
- Phosphorus is 50% prompt and 50% sustained release
- Calcium to improve plant strength
- Silica reduces the leaching of potassium
- Silica and calcium improves plant stress tolerance
- Silica maintains phosphorus in a plant available form
- Silica reduces the 'lock-up' of phosphorus by tying up aluminium and iron
- Safe for soil ecology and soil microbes
- Does not increase soil acidity
- Good granulation for easy blending and spreading
- Complements conventional phosphorus fertilizers
- Analysis of 12% phosphorus, 29% calcium and 10% silica
- Certified input for organic production

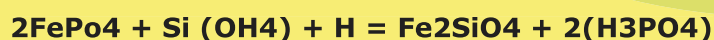
## SILICA

Silicon Fertilizers (Guano Gold - Kwik Start) increases the concentration of Monosilica acids in the soil solution and their absorption on soluble phosphorus of Calcium (CaHPO<sub>4</sub>), aluminium (2Al (H<sub>2</sub>PO<sub>4</sub>) and iron (2FePO<sub>4</sub>).

By this it means Silicon Fertilizers initiate the following processes.

1. Transformation of slightly soluble phosphates into mobile forms.
2. The physical absorption of mobile phosphates by silicon-rich surfaces.

ALL FACTS SUGGEST that Si-rich materials can be used for reducing - "P" - "LOCK UP", and keep applied PHOSPHORUS in plant available form.



## Drive your phosphorus \$ Further

With all three forms of phosphorus

1. Water soluble phosphorus for immediate release
2. Citric soluble phosphorus for mid-term release
3. Non citric soluble phosphorus for sustained release

### ADDED BENEFITS FOR SOILS. . . .

In acid soils, iron and aluminium are often in excess. When water soluble phosphorus fertilizers ('super') are applied to acid soils, chemical reactions form that can 'lock up' phosphorus before the plant can utilize it. By combing Guano Gold, it continues to release phosphorus to the plant/crop for the whole of the growth cycle.

### PLUS SILICA. . . .

Guano Gold also comes with silica (Si (OH) 4). The role of the silica is to protect the water soluble phosphorus. Silica does this by binding with iron and aluminium and allowing the water soluble phosphorus to stay in a plant available form for longer, reducing phosphorus 'lock-up'. In addition, the citric soluble and non citric soluble phosphorus in Guano, continues to release phosphorus to the plant/crop for the whole of the growth cycle.

### PLUS MORE AVAILABLE POTASSIUM . . . .

In acid soils, aluminium can prevent potassium from being able to hold onto the soil particles. This is because aluminium has a stronger charge than potassium. The aluminium can 'kick' potassium off the soil colloid, which contributes to potassium leaching. Silica as found in Guano Gold acts as a buffer by bonding to aluminium and allows the potassium to remain plant available.

So add Guano Gold to your fertilizer and you'll have more plant available

## PHOSPHORUS and POTASSIUM

**"John Jashar and his agronomist Rob Drewitt have provided excellent backup to our team at Mackay since our relationship began, and I can only recommend this companies willingness to be open, frank, and very punctual about any dealings they have had with us."**

*~ Noel James , Agronomist, Elders - Mackay - Qld.*

## "PARTNERSHIP FOR PROFIT"

For all supplies contact:

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**or your nearest Elders branch**

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