

Key benefits

- **PRECISE PLACEMENT**
- **EFFICIENT UTILISATION**
- **SAVES TIME AND MONEY**
- **ENVIRONMENTAL POSITIVE**
- **QUALITY MICROGRANULE**
- **LOW RATES (10 - 30 KG/HA)**
- **EASY HANDLING - 10 KG BAG**

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Umoplast Super ZN Precision Nutrition

Umoplast ZN is a micro granulated fertiliser containing around four million granules per kg, which means it has an extremely high interface with your seeds, providing all important nutrients quickly and safely.

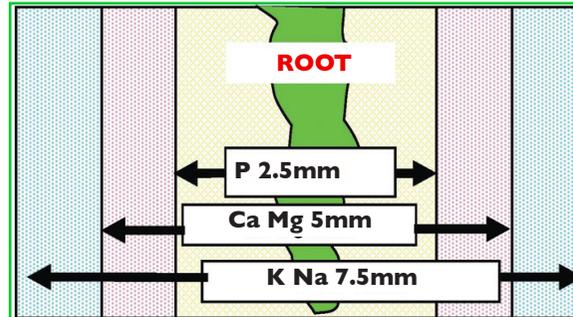


5g of Umoplast:
approx 25,000
microgranules 90%
between 0.5-1.0mm



5g of 18:46:0
approx 200 granules
2.5-4.0 mm

Maximum distance root capacity nutrient uptake



For maximum uptake, nutrients need to be available close to the root. This is especially true of phosphate, as shown in the diagram. With a composition of 11:50:0+1ZN, Umoplast Super ZN places essential nutrients exactly where the plant needs them. Wastage is minimised.

Umoplast

Microgranular starter fertiliser

**give your maize a better start
for a stronger finish**

SIPCAM
UK

**Highly available phosphate base
with analysis 11:50:0+1ZN**

Quick start

Replacing conventional fertiliser with Umostart at drilling has several advantages.

To begin with, there is a simple logistical benefit. Much lower volumes of fertiliser are required, simplifying operations for contractors who can carry the fertiliser as well as the seed, speeding up operations and reducing transport requirements.

The fertiliser is placed where the plants can best use it and compared with DAP or MAP the total amount applied is significantly reduced. This avoids waste and loss of nutrients, reducing the risk of oversupply in high index soils.

Umostart is therefore the sustainable choice, especially where soils have a P index of 3 and above or where N is restricted under NVZ regulations. Moreover, a lower dose of N as a starter fertiliser gives the potential for more organic manures or N at later growth stages.

The effects of using Umostart are easy to see:



Untreated rows show clearly and plants are much smaller.



The difference continues to show at later growth stages.

Improved feed value

Umostart has been used successfully on maize in the UK for over 10 years.

Results from UK trials have indicated improved organic matter digestibility, higher starch, sugar and dry matter content when Umostart is used to give maize a better start. In a replicated trial in 2012 increases in DM yield of over 30% were observed. Thanks to better rooting, crop maturity was reached sooner and so starch yields also increased.

UMOSTART UK trials

Starter Treatment	DM%	Fresh Yield t/ha	DM Yield t/ha	Starch (%)	Plant Height (cm)
Untreated	43.4	22.9	9.95	31.96	144
Umostart @ 20kg/ha	45.0	24.4	10.96	32.54	159
Umostart @ 25kg/ha	44.6	29.2	13.02 (+31%)	33.03 (+3%)	178 (+24%)

Variety: Yukon; Sown on 12.5.11 at seed rate of 45,000/acre, harvested on 6.11.12. Courtesy Spunhill Farm Sales

Starter fertiliser treatment	Early vigour	Dry Matter Content (%)	Dry Matter Yield t/ha	Starch content %	Starch increase over untreated (%)
Untreated	7.7	28.1	13.8	27.0	-
Umostart 20Kg/Ha	7.9	28.4	14.7	29.5	+9%
Umostart 25 Kg/Ha	8.5	28.7	14.7	30.5	+13%
DAP 125Kg/Ha	8.8	27.3	14.8	27.4	+1%

Variety: Kroesus
Hunts trials

Application technology

Umostart Super ZN is simple to apply whatever your system of crop establishment.



Drilling Systems

Umostart Super ZN can be applied through many conventional drills, usually by the addition of an ancillary OEM unit, or alternatively by a micro applicator fixed directly to the drill or toolbar.



Umostart Super ZN is packed in easy-to-handle, high quality 10kg foil bags and because it is applied precisely, you only need to use 10-30 kg/ha, which saves you time and is kinder to the environment.