

# Polymex

Fertiliser Additives



## Use

To protect plant available phosphate from becoming immobilised on high pH or calcareous soils.

## Crops

Most agricultural crops including maize, oilseed rape and potatoes.

## Pack Size

20, 1000 litres, or pre mixed with fertiliser.

## Function of Polymex

Polymex is a complex biodegradable long-chain polymer. It protects phosphate from becoming immobilised in the soil and ensures that the water soluble phosphate fertiliser applied to responsive crops remains soluble for longer. As a result of the greater availability of phosphate young plants are able to establish a longer and more extensive root system more quickly. Trials have shown that not only are the root systems more advanced, but also the roots have a significantly higher level of root hairs, which assimilate higher levels of nutrients as a result.

## Phosphate Fertilisers

After application to soils in the UK, phosphate fertilisers rapidly complex with cations such as calcium and magnesium to form insoluble compounds. This significantly reduces the availability of both the phosphate and calcium or magnesium to plants.

The speed at which this process takes place can be rapid, with most of the phosphate from an application to warm aerated soils becoming immobilised within a period of a few hours to a few days. Once immobilised, the phosphate is effectively unavailable to the plant until the compound is broken down by microbes or plant root exudates in the soil.

## Function of Phosphate

Water soluble phosphate is vital for plants. It helps rapid establishment of crops and is an essential component of the energy cycle within the plant. It also helps produce healthy root systems that are more resistant to diseases.

## Composition

Thermal polyaspartate

## Directions for Use



Use Polymex on high pH or calcareous soils when phosphate lockup is known to occur or is suspected. Best results are achieved when placed in mix with liquid phosphate fertiliser.

Apply 1-5 L/ha.

**Liquid Fertiliser:** Add half of the fertiliser to the spray tank, add the required amount of Polymex whilst agitating then add the remaining fertiliser. Maintain agitation whilst applying.

**Granular Fertiliser:** Apply before application of granular fertiliser using spray nozzles. Add half of the water to the spray tank, add the required amount of Polymex whilst agitating, and then add the remaining water. Total spray volume should be a minimum of 200 L/ha. Maintain agitation whilst spraying.

Crop	Timing	Rate L/ha	Comments
Maize	Placement <sup>1</sup> at planting	3	Apply tank mixed with liquid fertiliser. The mix should be injected 50mm below and 50mm to one side of the seed to prevent seedling scorch
	Overall treatment at planting	5	Apply pre-planting in a minimum of 200 L/ha water
Oilseed Rape	Placement <sup>1</sup> at drilling	1	Apply tank mixed with liquid fertiliser. The mix should be placed immediately below or surrounding the seed
	Band application at drilling	2-3	Apply tank mixed with liquid fertiliser. The rate will depend on the band width of the treatment. (if treated area is >25% of the total, apply 3L/ha. If 10-25% of the total apply 2L/ha. If <10% see placement above)
	Overall treatment at planting	5	Apply pre-drilling /pre-emergence in a minimum of 200 L/ha water
Potatoes	Placement <sup>1</sup> at planting	3	Apply tank mixed with liquid fertiliser. The mix should be injected 50mm below and 50mm to one side of the seed potato to prevent seedling scorch
	Overall treatment at planting	5	Apply pre-planting in tank mix with solution fertiliser, suspension fertiliser or a minimum of 200 L/ha water

## Notes

<sup>1</sup> For best results with Polymex apply through a placement applicator in mix with liquid starter fertiliser (such as 7-20-0) at time of planting/drilling.

Polymex is physically compatible with the full range of OMEX clear solution fertilisers. To ensure complete mixing with OMEX suspension fertilisers Polymex should be mixed during production by OMEX.

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