ENGAGE
The Power of Nutrition

Fortify™ 30-20

An advanced **zero nitrogen** potassium phosphite designed for use in all fruit and vegetable crops.

Fortify 30-20 is a new potassium phosphite formulation created without the need for ammonia stabilisation making it ideal for use as an irrigated or foliar applied potassium and phosphorus fertiliser.

Work across the world on PO_3 has proven that phosphites increase the phloem mobility of nutrients when used regularly.

Fortify 30-20 provides a strong potassium and phosphorus source which can be distributed within a plant at higher volumes.

Fortify 30-20 also has protectant qualities for the crops against the ingress of Oomycetes diseases and is known to stimulate root initiation.

CROPS

- Brassicas
- Potatoes
- Legumes
- Top Fruit
- Vine Crops
- Soft Fruit
- Leafy Salads
- Root Crops
- Citrus
- Ornamentals

Guaranteed analysis: w/w

Phosphorous (P_2O_5)	30.0%
Potassium (K_2O)	20.0%

The Role of Phosphorus

- Phosphorous forms part of the structure of amino acids, proteins, nucleic acids, and plant DNA. Plants low in phosphorus become unable to reproduce, which means they cannot produce seed and fruit.
- Phosphorus is part of various proteins which are essential for the formation and proper function of enzymes, which are in turn involved in many plant processes, including photosynthesis.
- Phosphorous plays a central role in both photosynthesis and respiration. Both are exceptionally complex processes and play a pivotal part in the Krebs cycle. The Krebs cycle is the second step in respiration and is the process by which plants produce energy.
- A plants ability to generate abundant energy becomes more important when it is put under additional stress, such as cold soil and air temperature.

The Role of Potassium

- Potassium plays an important role in photosynthesis and plant food formation.
- It is important for sugar and carbohydrate production, transport, and storage. A common effect of this K function is a nitrogen shortage in leguminous crops when they are short of K. The reason being that potassium deficient plants produce and transport less sugar to the legume nodules, thus causing the N-fixing bacteria in the nodules to reduce the amount of N produced.
- Potassium is also important in conjunction with Ca and B, for the proper development of cell walls.
- Potassium controls plant cell turgor and through this the opening and closing of leaf stomata. This in turn controls the plants ability to effectively respond to heat stress and water loss during periods of drought.

JF McKENNA®
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Bio-Fortification for Crops™

Fortify™ 30-20

Crop Timings and Application Rates

Crop	No of applications	Timings	Rate litres/ha
Brassicas	3-4	As required from tissue analysis Repeat at 10-14 day intervals	2.0-4.0
Leafy salads	2-3	As required from tissue analysis Repeat at 10-14 day intervals	2.0
Potatoes	2-3	As required from tuber initiation Repeat as necessary at 10-14 day intervals	2.0-3.0
Root crops	3-4	As required from tissue analysis Repeat as necessary at 10-14 day intervals	2.0-3.0
Legumes	3-4	From 10-15cm stem height Repeat as necessary at 14 day spray intervals	2.0-3.0
Top fruit	6-8	Apply from petal fall at 14-21 day intervals	2.0-4.0
Citrus	6-8	Apply in 400-800 litres of water depending upon tree size Repeat at 14 days interval throughout early fruit development and towards harvest	3.0-4.0
Vine crops	3-4	Apply from flowering at 14 day intervals	2-0-4.0
Soft fruit	4-8	As required from tissue analysis Repeat at 10-14 day intervals	2.0-4.0
Ornamentals	As required	As required from tissue analysis Repeat at 10-14 day intervals	1.0-3.0

Fortify 30-20 applied through Irrigation

Fortify 30-20 can be applied to the roots of hydroponically irrigated crops at a rate of 4-10 litres/ha depending upon crop to aid continual root development, nutrient mobility and to support crop health and yield retention. Dose at normal rates used for feeding of the crop.

Fortify 30-20 is compatible with most known fertilisers and pesticides but it is advisable to conduct a jar test with new mixes or products.

Never mix in a concentrated form with other fertilisers which contain high amounts of calcium.

Apply in 400-800 litres of water for optimum coverage and in a minimum of 200 litres.

Avoid spraying in temperatures above 32°C

For more detailed application rates per crop, please visit engagecropsolutions.com or speak to a JF McKenna advisor. Always read the label before use.

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Exclusive distributor in Ireland.

66 Cathedral Road | Armagh | BT61 8AE

t: +44(0)28 3752 4800 **e:** stephen@jfmckenna.com

www.jfmckenna.com

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