

Angus Humic & Fulvic Acid

We are proud to present our **Angus Humic and Fulvic Acid** derived from **Lignite Ore** offering compatibility and flexibility when mixing with most plant nutrient and tank mix formulations.

- Improves soil structure
- Increases nutrient exchange and retention (Improves CEC)
- Enables plant to obtain nutrients more readily
- Stimulates microbial growth
- Improves nutrient absorption & increases nutrient uptake
- Stabilizes pH
- Increases stress tolerance within the plant
- Increases root development
- Improves seed germination
- Easily applied through all irrigation systems and spray application equipment
- A source of energy for soil microbes present in the root zone
- A source of organic carbon, sulphur and potassium necessary for healthy plants
- Enhances shoot and root growth in turf
- Greater chlorophyll content

Angus Humic and Fulvic Acid

liquid solution with lignite

Total Potassium Oxide [K₂O] 1.7% [1.4% K]

Rates of Application:	Root drench via irrigation etc.	8 litres product [in minimum 100 litres of water] / ha weekly
	Foliar application	20 litres product [in minimum 250 litres of water] / ha monthly

Angus Humic and Fulvic Acid is a bio stimulant and not a fertiliser. As such it should always be used as part of a standard fertility program. Always read and follow label instructions. When tank mixing we strongly recommend a simple 'bucket test' prior to application in order to confirm compatibility although we do expect good compatibility with most other sprays.

Available in 10, 200 & 1,000 litre containers

best quality, best service, best value





Angus Liquid Turf Tonic

Fish Blood & Bone 8-8-7 + TE

Angus Liquid Turf Tonic is an organic liquid fertiliser formulated specifically to provide efficient use of nutrients and a fast response, boosting colour and promoting healthy growth safely. Easily tank mixed and works well on all grass types to produce the best results when used in conjunction with the provision of all necessary plant nutrients and soil requirements.

Fish Blood & Bone Liquid Suspension 8-8-7 + 0.3% MgO + 1.3% CaO + 2.7% SO₃ + Trace Elements, B, Cu, Fe, Mn, Mo & Zn

Rate of Application: 20 litres / hectare in 200 -500 litres of water, monthly
Use lower rate (15lt/ha) if increase in growth is not required, or if using frequently at 10-14 day intervals over a period of several months

Application timing: Safe to use at any time, use with other sprays for efficiency
Use when plant has an urgent requirement for nutrients
Use at times of plant stress including water logging

Application method: Best used as a foliar feed but also effective used as root zone drench

Benefits

- Extremely efficient source of essential plant nutrients, promoting strong, lush and healthy growth
- Provides a kick start to growth, particularly in cold, wet or waterlogged conditions
- An excellent plant tonic giving a boost/perk to the plant at any time
- Helps as a sticker/spreader to other foliar nutrients, improving their efficacy
- Organic fertiliser, formulated from fish meal and kali-vinasse for foliar or liquid feeding
- Suitable for all crops, providing a compliment of essential plant nutrients including Calcium
- Rapid take up by foliage and roots
- Gives quick return to healthy colour
- Organic constituents (proteins, amino acids & globulins) decompose slowly to provide additional nutrient release and improved microbial activity in the root zone
- Non scorching and ideal for seedlings and stressed plants
- Contains natural growth promoters; gibberellic acid and triacontanol

Available in 10 litre containers

best quality, best service, best value



Angus Phosphite

Potassium Phosphite 0-35-32 w/v

Angus Phosphite is formulated specifically to encourage healthy growth, good colour, fast root establishment and disease resistance. Easily tank mixed with a wide range of plant nutrients and crop protection products **Angus Phosphite** works on all grass types to produce the best results when used in conjunction with the provision of all necessary plant nutrients and soil requirements.

Angus Phosphite

Rate of Application:
Application timing:

0-35-32 w/v – Phosphorus with a difference

5 litres / hectare in 200 – 500 litres of water
monthly or 10 – 14 day intervals at times when rooting is to be encouraged or at times of particular disease pressure or for winter protection

Application method:

Best used as a foliar feed but also has benefits used as a root drench

Benefits

- Increased plant and root development
- Provides a quick start to rooting even in cold & wet conditions
- An excellent plant tonic giving a boost/perk to the plant at any time
- Thickens cell walls, increasing plant health and reducing susceptibility from cold and disease pressure
- Phosphite [PO₃] is highly mobile within the plant, especially in the phloem and therefore very efficient
- Safe to use
- Compatible with most agrochemicals

Unlike nearly all the phosphorus that is widely used in horticulture and agriculture this phosphorus is not in the form of phosphate! It is instead a much more freely available and highly mobile within the plant form called phosphite; just one less oxygen molecule [PO₃ not PO₄] making a huge difference to the efficiency of that phosphorus applied. Best applied as a foliar application it is quickly absorbed translaminally, mobilized in the phloem and taken to the roots where root activity is increased, root growth promoted and nutrient uptake through the roots improved.

A chain reaction within the plant stimulating phytoalexins, SAR genes, etc., result in thicker cell walls meaning that plants are stronger, hardier and better able to withstand stress from disease pressure. Our turf tonics are not fungicides, but it may be possible to reduce the use of fungicides when used in conjunction with potassium phosphite. Please consult your FACTS & BASIS qualified Angus Horticulture agronomist for further advice.

Phosphite delivers essential phosphorus in a form that helps to boost plant health by maximizing enzyme potential to fight off infection in periods of stress from disease.

When tank mixing, bucket test first to ensure compatibility.

Available in 10 litre containers

best quality, best service, best value



Angus Liquid PotSi™

Enhances the grass plants growth, strength and health

14%w/w Potassium oxide (K₂O), 7% Silicon (Si) + humates

When it comes to plant nutrition Silicon is often referred to as the forgotten element. In fact Silicon plays a vital role within plant structure improving plant growth, strength and health.

When Silicon enters the plant it accumulates around the epidermis of roots and shoots where it forms a silicon gel that, in combination with calcium and pectins help to strengthen and stabilise cell walls. The silica moves between cell walls and is also laid down in the epidermal cells. Silica is deposited in the endodermis of roots.

The presence of silica in the plant decreases evapo-transpiration thus improving tolerance to heat and drought.

Tests have shown that plants deposit silicon at the site of fungus infections to combat penetration of cell walls by fungal spores. Silicon maximizes plants' natural production of phytoalexin compounds which resist invasion by pathogens.

The use of Angus Liquid PotSi™ is formulated for fast and effective assimilation into plant tissues

This product is safe to use on a wide range of plants as well as amenity grass, please contact your Angus Horticulture advisor for specific recommendations.

Angus Liquid PotSi™ offers the following benefits:

- **Stronger plant growth**
- **Thicker cell walls**
- **Improved leaf erectness**
- **Reduction in the likelihood of iron (Fe) and Manganese (Mn) toxicity**
- **Reduces susceptibility to attack from pathogens & sucking insects**
- **Increases resistance to water and temperature stress**

Angus Liquid PotSi™ potassium and silicon for use on amenity turf

Application rates: 5 litres / ha in 500–800 litres of water

Available in 10 litre bottles

Excellent source of **silicic acid**

Products of integrity!



Bio SeaHum™

Liquid biostimulant containing seaweed extracts and humic acids formulated to reduce plant stress and improve plant health. High quality constituents provide essential amino acids, plant hormones, humic & fulvic acids, carbohydrates and low levels of nutrients ensuring healthy and vigorous plant growth. Rooting is also enhanced; complexed Manganese (Mn) is supplied.

Bio SeaHum™

Biostimulant with seaweed extracts and humic acids + Mn

Application rates:

20 - 40 litres / ha in 300 - 400 litres of water

For use on all turf surfaces

Available in 10 litre containers

Angus SeaAmino™

High quality seaweed extracts fortified with essential amino acids for promotion of healthy swards, sustaining strong growth, improved resistance to environmental stresses and enhanced disease resistance.

Angus SeaAmino™

Quality seaweed extracts fortified with amino acids

Application rates:

5 - 10 litres / ha in 300 - 500 litres of water

For use on all turf surfaces

Available in 10 litre containers

best quality, best service, best value



Angus AquaEasy™

Our revolution in water management for all amenity turf, **Angus AquaEasy™** offers both **soil penetrant** qualities and the ability to aid **water holding capacity**, thereby improving **water movement** through the root zone and improving **water distribution** within the root zone.

Angus AquaEasy™ is an important and valuable water management tool suitable for use in all root zones. This surfactant penetrant and block co-polymer new 'generation technology' helps to prevent or disperse dry patch, reduce water related plant stress, reduce the requirement for irrigation and ensure even water distribution throughout any root zone.

Research worldwide has shown the initial cause of dry patch is the build-up of naturally produced waxes and lipids around the sand/soil particles. When these coated sand/soil particles dry out they become hydrophobic (water-repellent) and the root zone is unable to hold water. Dry patch usually appears during periods of dry weather as small isolated patches of thin, stressed water repellent turf. The symptoms can affect all turf grass species but initially are more apparent on the shallower rooted species i.e. annual meadow grass where total die back of the plant can occur very quickly.

Beneath the surface in these affected areas the soil is extremely dry and will not easily re-wet. Research in the UK has shown that the build-up of waxes and lipids around the sand/soil particles that cause dry patch are concentrated at the soil thatch interface and this area is referred to as the hydrophobic zone.

Angus AquaEasy™ offers the following benefits:

- **Improves water penetration**
- **Improves water distribution**
- **Helps to prevent dry patch or helps to overcome dry patch**
- **Reduces water related plant stress**
- **Reduces the requirement for irrigation**
- **Effectively disperses dew & guttation**
- **Encourages a healthy balance of air & water in the root zone**
- **Provides an improved environment for healthy root growth**

Angus AquaEasy™ wetting agent for use on amenity turf

Application rates:

500m ²	1 litre of product in 40 litres of water - (approx. 1 litre AquaEasy™ /green)
1250m ²	2.5 litres of product in 100 litres of water
5000m ²	10 litres of product in 400 litres of water
1 ha	20 litres of product in 800 litres of water

Available in 10 litre containers – 200 litre and 1000 litre containers also available

best quality, best service, best value



Angus Auchmithie

Ultimate liquid feed

Based on 100% organic plant extract with added high quality seaweed and complexed non staining iron, homogenised for enhanced application efficacy, plant uptake and plant response.

- **Outstanding results on all sports turf**
- **Stimulates plant health and vigour**
- **Excellent soil conditioner, stimulating bacterial activity and promoting nutrient assimilation by the plant**
- **Promotes stress resistance**
- **Low N formulation with secondary nutrients and traces of micro nutrients**
- **Foliar feed, root uptake and feeds soil**
- **Free of bovine extracts, safe to use and no bovine odour**

Angus Auchmithie™ ultimate liquid feed

Application:

Apply monthly throughout the year when conditions allow Best used when soil temperatures are above 5°C Avoid spraying in high light conditions and water after application if no rain due

Fine turf: 20 litres / hectare in 300 – 500 litres of water

Fairways & pitches: 40 litres / hectare in 300 – 500 litres of water

For Quality, Service & Value

