

BioActive ProLoNg™ mini

Nitrogen efficiency

ProLoNg™ technology in our high quality, homogenous, mini granular fertiliser range, specifically formulated for high quality fine turf. These BioActive ProLoNg™ mini fertilisers offer:

- Low salt formulations
- Especially formulated to encourage and maintain healthy root zones, looking after the biota
- 100% of Nitrogen is treated with ProLoNg™ technology
- Safe to use throughout the year

BioActive ProLoNg™ mini	16 - 2 - 10 + 2% MgO + 3% CaO + 6% SO₃
Greens & Tees	64% of Nitrogen (N) as Ammonium with ProLoNg™ technology 36% of Nitrogen (N) as Urea with ProLoNg™ technology 100% of Potash from Potassium Sulphate
*Potential longevity:	spring/summer application, 2-3 months autumn/winter application, 5-6 months
Rates of Application:	50g/m ² 20kg bag treats 400m²
Nutrients applied per m ² @ 50g/m ²	8g N – 1g P ₂ O ₅ - 5g K ₂ O + 0.9g MgO + 1.5g CaO + 3g SO ₃ 1-2.5mm granules

BioActive ProLoNg™ mini	12 - 0 - 15 + 3% MgO + 4% CaO + 6% SO₃ + 1% Fe
Greens & Tees	75% of Nitrogen (N) as Ammonium with ProLoNg™ technology 25% of Nitrogen (N) as Urea with ProLoNg™ technology 100% of Potash from Potassium Sulphate
*Potential longevity:	spring/summer application, 8-10 weeks autumn/winter application, 4-5 months
Rates of Application:	50g/m ² 20kg bag treats 400m²
Nutrients applied per m ² @ 50g/m ²	6g N – 7.5g K ₂ O + 1.5g MgO + 2g CaO + 3g SO ₃ + 0.5g Fe 1-2.5mm granules

*Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.



BioActive ProloNg™ fairway + sports pitches

Nitrogen efficiency

- Homogenous 1-3mm granules for good granule/nutrient distribution
- Ideal for fairways, outfields & sports pitches
- Low salt formulation for healthy root zones

BioActive ProloNg™ fairway & sports pitches	18 - 2 - 18 + 2% CaO + 8% SO₃
	100% of Nitrogen with ProloNg™ technology; 12% ureic, 6% ammoniacal 100% of Potash from Potassium Sulphate – low salt formulation
*Potential Longevity:	Spring/Summer, 3-4 months or autumn/winter, 6-8 months
Rate of Application:	50g/m ² 20kg bag treats 400m²
Nutrients applied per m ² @ 50g/m ²	9g N – 1g P ₂ O ₅ - 9g K ₂ O + 1g CaO + 4g SO ₃ 1-3mm granules

BioActive ProloNg™

Nitrogen efficiency

- Blended 2-4mm granules
- Ideal for fairways, outfields & sports pitches
- Low & reduced salt formulations for healthy root zones

BioActive ProloNg™ Pre-Seeder	12 - 10 - 18 + 4% MgO + 12% SO₃ + humates + seaweed
<i>Blended Pre-seeder</i>	80% of Nitrogen as urea with ProloNg™ technology & 20% of N as ammoniacal 100% of Potash from Potassium Sulphate – low salt formulation
*Potential Longevity:	Spring/Summer, 6-8 weeks or autumn/winter, 4+ months
Rate of Application:	50g/m ² 20kg bag treats 400m²
Nutrients applied per m ² @ 50g/m ²	6g N – 5g P ₂ O ₅ - 9g K ₂ O + 2g MgO + 6g SO ₃ 2-4mm granules

BioActive ProloNg™ Grow-In	20 - 4 - 20 + 1.5% MgO + 3% CaO + 8% SO₃ + seaweed
	92% of Nitrogen as urea with ProloNg™ technology & 8% of N as ammoniacal 52% of Potassium from Sulphate of Potash – reduced salt formulation
*Potential Longevity:	Spring/Summer, 2-3 months or autumn/winter, 5-6 months
Rate of Application:	50g/m ² 20kg bag treats 400m²
Nutrients applied per m ² @ 50g/m ²	10g N – 2g P ₂ O ₅ - 10g K ₂ O + 0.75g MgO + 1.5g CaO + 4g SO ₃ 2-4mm granules

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BioActive ProloNg™

Nitrogen efficiency

BioActive ProloNg™ Just N

46 - 0 - 0

*Potential Longevity:	100% of Nitrogen as urea with ProloNg™ technology spring/summer application, 6-8 months	
Rate of Application:	50g/m ²	20kg bag treats 400m ²
Nutrients applied per m ² @ 50g/m ²	23g N	2-4mm granules

BioActive ProloNg™ s/s high N

28 - 3 - 15 + 1% MgO + 1.5% CaO + 5% SO₃

*Potential Longevity:	96% of Nitrogen as urea with ProloNg™ technology & 4% of N as ammoniacal 52% of Potassium from Sulphate of Potash – reduced salt formulation spring/summer application, 4-5 months	
Rate of Application:	50g/m ²	20kg bag treats 400m ²
Nutrients applied per m ² @ 50g/m ²	14g N – 1.5g P ₂ O ₅ - 7.5g K ₂ O + 0.5g MgO + 0.75g CaO + 2.5g SO ₃	2-4mm

BioActive ProloNg™ Late Summer

16 - 5 - 25 + 1.5% MgO + 3.5% CaO + 12% SO₃

*Potential Longevity:	88% of Nitrogen as urea with ProloNg™ technology & 12% of N as ammoniacal 52% of Potassium from Sulphate of Potash – reduced salt formulation September application, 4-6 months	
Rate of Application:	50g/m ²	20kg bag treats 400m ²
Nutrients applied per m ² @ 50g/m ²	8g N – 2.5g P ₂ O ₅ - 12.5g K ₂ O + 0.75g MgO + 1.75g CaO + 6g SO ₃	2-4mm

BioActive ProloNg™ High K

15 - 0 - 25 + 3% MgO + 4% CaO + 10% SO₃ + seaweed

*Potential Longevity:	100% of Nitrogen with ProloNg™ technology 57.65% of Potash from Sulphate of Potash – reduced salt formulation Spring/Summer, 6-10 weeks or autumn/winter, 5-6 months	
Rate of Application:	50g/m ²	20kg bag treats 400m ²
Nutrients applied per m ² @ 50g/m ²	7.5g N – 0g P ₂ O ₅ - 12.5g K ₂ O + 1.5g MgO + 2g CaO + 5g SO ₃	2-4mm

BioActive ProloNg™ Autumn High K

10 - 0 - 30 + 2% MgO + 7% CaO + 10% SO₃ + seaweed

*Potential Longevity:	100% of Nitrogen with ProloNg™ technology 52% of Potassium from Sulphate of Potash – reduced salt formulation October application, 5-6 months	
Rate of Application:	50g/m ²	20kg bag treats 400m ²
Nutrients applied per m ² @ 50g/m ²	5g N – 0g P ₂ O ₅ - 15g K ₂ O + 1g MgO + 3.5g CaO + 5g SO ₃	2-4mm granules

*Longevities quoted are based on recommended application rates & are purely a guide, as plant variety, plant density and environmental conditions, as well as timing of application will dictate plant Nitrogen use and therefore the speed in which applied Nitrogen is utilised.

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Angus BioActive Products

Angus Horticulture have been at the forefront of the move to natural turf management and now have many years of experience in formulating, producing and using what we now call **Angus BioActive Products**. While not advocating the complete suspension of chemical nutrients we do believe, and indeed have proved, that it is possible to significantly reduce chemical inputs and in particular fungicides are frequently not required at all.

Using **Angus BioActive Products** as part of a planned programme for grass management enables sports turf managers to improve sward quality, plant health, playing surface and establishment of newly seeded areas. The range of products is now selling throughout Europe and word of mouth is promoting continually increased sales for this outstanding range of products.

Working with nature, encouraging natural biology to develop and thrive is where **Angus BioActive Products** work best. Once developing these fungal and bacterial colonies it's important to protect and nurture this natural life that so improves our root zones, plant health and nutrient availability. Angus Horticulture produce a range of reduced and low salt fertilisers that ensure the best possible outcome for plant and microbial life.



ProloNg™ technology

Nitrogen efficiency

ProloNg™ fertilisers are formulated to overcome the problem of loss of applied nitrogen (N) by volatilisation, de-nitrification and subsequent leaching and are ideal for all sports turf applications.

*Researchers estimate up to 50% of nitrogen applied worldwide is lost to the environment rather than utilised by plants. The naturally occurring enzyme 'urease' works to break down urea into a form that can volatilise causing a loss of nitrogen. Leaching of nitrate can also be a significant loss and damaging to the environment. **ProloNg™ uses technology that actively shields and manages nitrogen in the soil at molecular level.** The shield prevents the action of urease on applied nitrogen and slows nitrification. This allows the plant improved access to stable forms of nitrogen throughout the growing season and without destroying the spectrum of naturally occurring soil bacteria and enzymes. ProloNg™ technology is biodegradable, water soluble and leaves no adverse environmental footprint.*

ProloNg™, by preventing nitrification, eliminates lush plant uptake of nitrates. This results in less flushes of unwanted growth, and reduction in soft tissue (stored protein in leaves) and therefore reduced disease susceptibility. ProloNg™ manages your nitrogen increasing nitrogen use efficiency, enabling prolonged availability of applied nitrogen and ensuring root zone bio-diversity is maintained.

Benefits of **ProloNg™** include:

- **Prolonged Nitrogen availability from single application**
- Improved utilisation and plant take up of applied Nitrogen
- **Promotion of tillering, increasing sward density**
- Reduced waste Nitrogen resulting in improved cost efficiency and reduced environmental impact by:
 - **Preventing volatilisation**
 - **Slowing down nitrification**
 - **Preventing leaching**
- **Reduces unwanted growth flushes**
- Safe, reduced scorch susceptibility formulations
- **Reduces soft lush growth and disease susceptibility**
- Protects water courses from nitrate pollution (less algae growth in ponds/lakes)
- **Discourages annual grasses in greens (e.g. Poa annua) – promotes perennial grasses**
- Can safely be applied at any time of year when conditions allow
- **Low salt formulations improving root zone environment and enhancing root activity**
- Range of granule sizes, pricing and formulations, to meet every turf managers requirements
- **Proven technology, with scientific explanation; ProloNg™ technology really works!**
- Excellent grass colour

Many times over, users have reported healthier swards of better colour; this is due to the fact that when nitrogen is applied, at whatever time of year, with ProloNg™ technology the plant will only assimilate its nitrogen requirements in the form of ammonium. The plant therefore has enough, but not too much nitrogen and is stronger/sturdier, healthier/less susceptible to damage (physical or disease pressure) and of improved appearance. There's no more requirement for 'artificial green-ups' using harmful products like iron sulphate.

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