rootgrow™ **professional pack sizes**





2.5L treats up **825** bare root whips

5L treats up to **1,650** bare root whips

10L treats up to **3,300** bare root whips

1KG treats up to **400** bare root whips

360g treats up to **150** bare root whips

See **root**grow™ calculator for further information

rootgrow™ professional back label

rootgrowprofessional™

Healthy living soils contain a beneficial range of microbes including mycorrhizal fungi and bacteria, which release and transport natural and applied nutrients to the plant roots.

rootgrow**professional**™ (**RG**Pro) is a blend of pure mycorrhizal fungi that has been specially developed to rapidly colonise the roots whenever new plants or trees are going to ground.

What are mycorrhizal fungi?

For the last 450 million years, 90% of all plants have been depending on this remarkable group of microorganisms. These fungal partners live with the host plant throughout its life acting as a vast secondary root system, greatly enhancing the capacity to locate and take up water and nutrients.

How do plants benefit?

1. **One treatment last the entire life of the plant** (as the plant grows so does the fungal partner)
2. **Reduced mortality** (especially bare rooted whips and transplants)
3. **Better drought tolerance** (the vast fungal network makes use of all available moisture)
4. **Improved establishment** (in just 2-4 weeks the mycorrhizal fungi can increase the active root area by up to 700 times)
5. **Better uptake of applied fertilisers** (mycorrhizal fungi act like a net, catching nutrients and reducing leaching)
6. **Improved health and stress resistance** (a well colonised plant will be better able to cope with pathogen or pest attack and poor soil conditions)
7. **Easy and safe to use** (simply sprinkle into the bottom of the planting hole or mix with the gel solution provided)

rootgrow**professional**™ contains: 100% pure mycorrhizal fungi, including arbuscular (AMF) and ecto (ECMF) mycorrhizal species and is produced in the UK. The mycorrhizal fungi component contains viable spores, fungal mycelium and dried colonised root fragments blended to a minimum of 500,000 infective propagules per litre. This product does not contain fertilisers.

The bio additives in **RG**Pro are at levels of less than 1% and are proven to enhance mycorrhizal colonisation.

Instructions:

DRY GRANULE APPLICATION

(rootballed & containerised plants)

Sprinkle the **RG**Pro granules evenly, at the recommended dosage (see below), into the prepared planting hole. Place the plant directly onto the granules so that the roots and granules are in contact. For plants over 30L or 12-14cm girth, apply during backfill against the side wall of the root zone to ensure contact with feeder roots.

Dose Rate:

Tree Girth/ Rootballed (cm)	Pot Size (L)	Quantity (ml~g)	Treated from 5L~5Kg
2-4	2-3	10	500
4-6	5	20	250
6-8	10	40	100
8-10	15-25	60	83
10-14	30-50	100-120	50
14-18	50-75	120-150	42
18-25	75-150	300-350	17
30+	250+	400	13

ROOT DIP APPLICATION WITH GEL SOLUTION

(bare root plants and whips)

This package contains gel powder for mixing with clean water to create a root dipping solution (the appearance, when mixed, should be similar to wall paper paste).

Mix 1x Sachet in 30-40L of water

The desired consistency will depend on the root density of the plant species used. Make the solution thinner for plants with dense or more fibrous roots. Add **RG**Pro granules, stir well, the granules should be suspended in the solution. Dip the roots in the solution and shake off excess. Plant immediately. Use mixed gel dip within 2 days and do not allow slurry to freeze. Any leftover solution can be safely applied to the soil surface.

Plants Treated:

Bare root whip/transplant size (cm)	Treated from		
	10Kg	5Kg	2.5Kg
30	3300*	1650*	825*
30-60	2500	1250	625
60-90	2000	1600	500
90-120	1600	800	400
120-150	1400	700	350
150+	1100	550	275

*this could be higher depending on root size and density – all calculations are approximate.

The greater the contact between the granules and the roots the faster the lifelong symbiosis between host and fungal partner will commence.

Volume: 5L~5KG

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See **root**grow™ calculator on excel spread sheet for further information

rootgrow™ professional granules

	Size range	Recommended inoculation volume (g)	Number of plants in design	Volume of **root**grow™ granules required (g)
Container size (L)	0.5 - 1	3		
	2 - 3	10		
	5	20		
	10	40		
	15 - 25	60		
	30 - 75	150		
	75 - 150	300		
	250+	400		
Bare root / root-balled / airpot tree girth (cm)	6 - 8	50		
	8 - 10	50		
	10 - 12	100		
	12 - 14	100		
	14 - 16	120		
	16 - 18	120		
	18 - 20	250		
	20 - 25	250		
	25 - 30	250		
	30+	400		

rootgrow™ professional gel

	Size range	Recommended inoculation volume (g)	Number of plants in design	Volume of **root**grow™ gel required (g)
Bare root whip or vines height (cm)	Vines and whips < 30	3		
	30 - 60	4		
	60 - 90	6		
	90 - 120	8		
	120 - 150	10		
	150 - 180	11		
Bare root tree girth (cm)	6 - 8	30		
	8 - 10	40		
	10 - 12	50		
	12 - 14	80		
	14 - 16	150		
	16 - 18	200		
	18 - 20	300		

Total volume of rootgrow™ **professional granules require**

Total volume of rootgrow™ **gel mix required**

Total Quantity in KG's required

Total Quantity 10KG tubs