

COMPO EXPERT

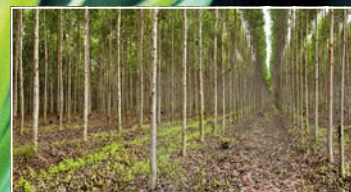
EXPERTS  
FOR GROWTH



# Controlled Release Fertilizer For Plant Hole Application



**Basacote®**

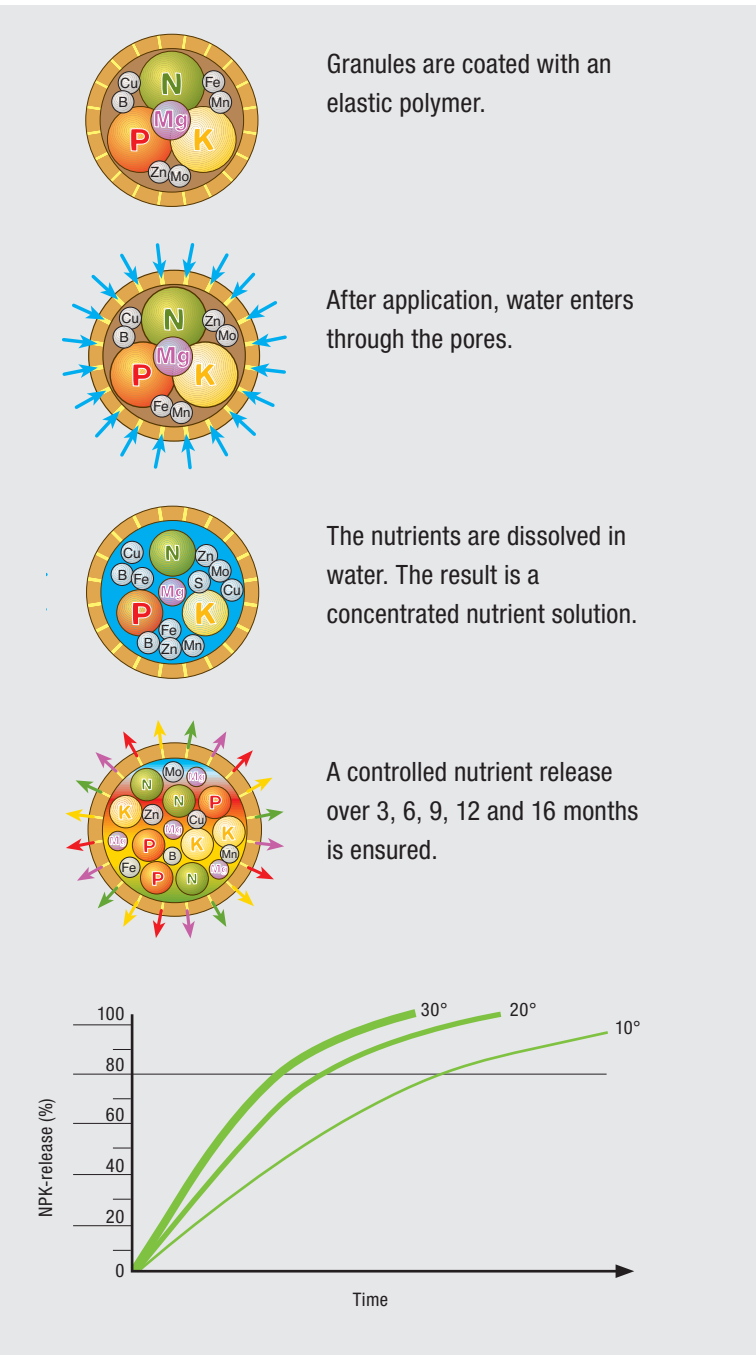






# How Basacote® / Flexicote® works

- Each fertilizer prill is evenly coated with an elastic polymer that controls water penetration and thus the dissolution of nutrients inside the coating.
  - After application, moisture slowly penetrates through the pores of the coating, dissolving the nutrients which then dissipate into the soil by osmosis and diffusion. The coating thickness determines the rate at which water can absorb into the granule, and the rate at which nutrients can diffuse out.
  - The coating ensures a controlled nutrient release over 3, 6, 9, 12 or 16 months.
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- The Climate Adapted Release (CAR-Technology) is linked to ambient temperature and guarantees nutrient availability according to individual plant requirements.
  - The coating and release rates are not affected by soil properties such as pH, microbial activity, salinity etc.
  - These characteristics prevent nutrient dumping and associated seedling mortality that is often experienced when fertilizers with inferior and brittle coatings are used in forestry.



## Types and release periods

Average Soil temperature	Basacote® 3M	Basacote® 6M	Basacote® 9M	Basacote® 12M	Basacote® 16M
15 °C	4–5 M	6–7 M	9–10 M	12–14 M	16–18 M
21 °C	3–4 M	5–6 M	8–9 M	11–12 M	14–16 M
27 °C	2–3 M	4–5 M	6–8 M	9–11 M	12–14 M

## The Benefits

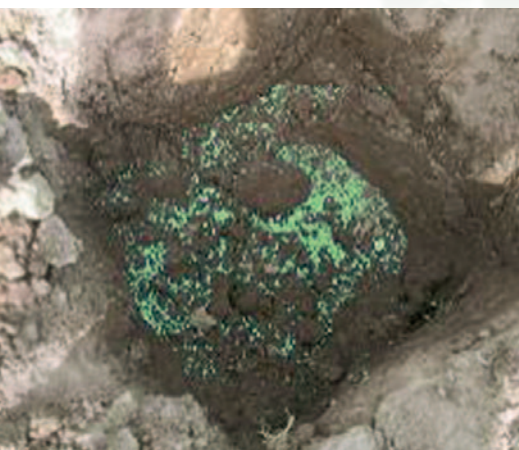
### Key benefits of Basacote® / Flexicote®

- Uniform (screened) granule size
- Nutrient release is dependent on ambient temperature (CAR-Technology)
- Frost resistant polymer coating material
- Minimal potential for nutrient toxicity and plant burning
- Supports the formation of well-developed root systems
- Flexible elastic coating material
- Homogenous release of macronutrients
- Placement of micronutrients just below the coating
- Reliable quality in every bag
- No excessive supply of nutrients
- Release rate is governed by temperature and moisture
- Effectively avoids nutrient fixation in soils

### Perfect for forestry

Basacote® / Flexicote® is ideally suited for use in forestry because:

- It can be applied directly at planting so no second pass is required saving application costs and labour inputs
- It only fertilizes the target tree not the surrounding weeds
- It uses low amounts of fertilizer by weight thus reducing freight and handling costs
- The early spike in growth helps trees overcome weed, pest and grazing pressure
- Trace elements in Basacote® overcome micronutrient deficiencies and help trees tolerate stress
- The nutrients are available to the new seedling immediately therefore reducing transplant shock
- Slow release properties mean less chance for leaching and nutrient eutrophication of waterways
- Well suited to high rainfall areas
- Small application amounts means less fertilizer is carried around the site by the planting crew



### Recommendation for application into planting holes\*

	Basacote® 6M/9M (g/plant)	Basacote® 12M/16M (g/plant)
<i>Eucalyptus spp.</i>	10–60	20–80
<i>Nothofagus spp.</i>	20–60	30–80
<i>Pinus radiata</i>	20–60	30–80
<i>Acacia spp.</i>	30–60	30–80
Grape Vines	30–60	40–80
Oil Palm	n.a.	150–350
Top Fruits	30–60	40–80
Soft Fruits	30–60	40–80

\* For detailed recommendations please contact your local Basacote®/Flexicote® dealer/agent.

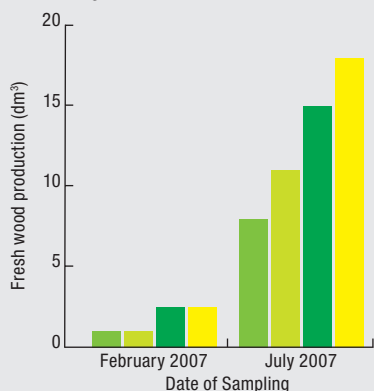




## Trial Results

### Forestry

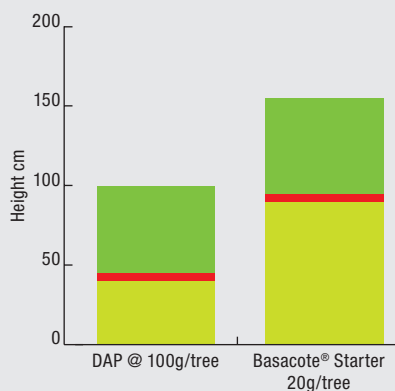
Basacote® in *Pinus radiata*, Chile  
Planted August 2006



Source: Austral University Chile

- Control nil fertiliser
- Standard 87 g/tree (Nitromag, tsp+boronate)
- Basacote® Plus 9M @ 20 g/tree
- Basacote® Starter 9M @ 20 g/tree

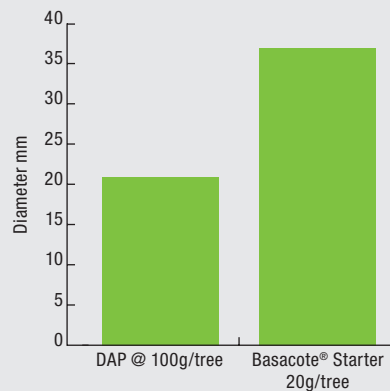
Basacote® Starter in *Eucalyptus nitens*, Tasmania  
Planted December 2010



Source: Serve-Ag Takone trial

- 6 month
- 10 month
- 12 month

Basacote® Starter in *Eucalyptus nitens*, Tasmania  
Planted December 2010

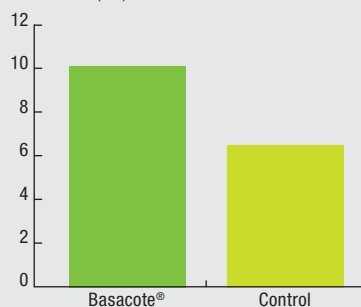


Source: Serve-Ag Takone trial

- 12 month

### Grapes, Chile 2005

Stem diameter (cm)



Left: Basacote® (50g/plant)

Right: Control

### Apples, BASF Limburgerhof, Germany 2005

Effect of Basacote® applications at planting on growth of fruit trees



0



25



50

g Basacote® 6M/plant at planting



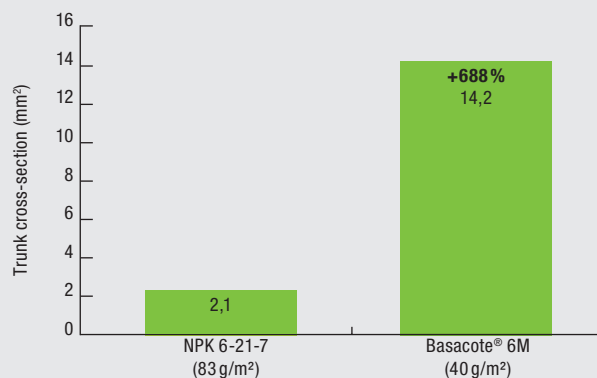
NPK 6-21-7 (83 g/m<sup>2</sup>)



Basacote® 6M (40 g/m<sup>2</sup>)

### *Nothofagus dombeyi*, Chile 2004/2005

Effect on the trunk cross-section



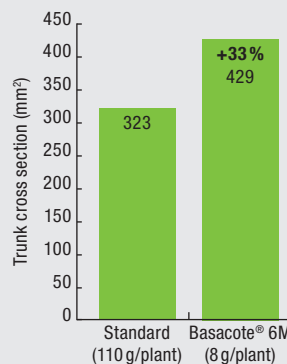
Standard (110 g/plant, NPK 3-33-3)



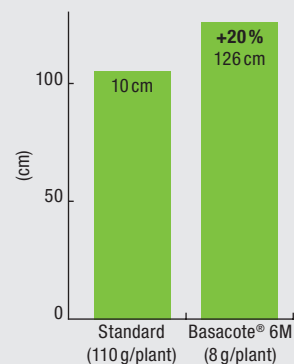
Basacote® 6M (8 g/plant)

### *Eucaliptus nitens*, Chile 2004/2005

Effect on the trunk cross-section after 7 months

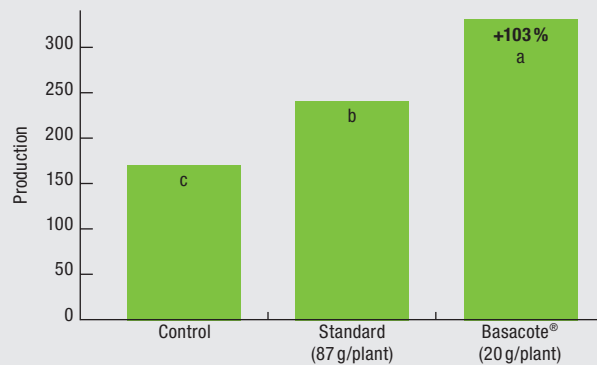


Effect on the height after 7 months



### *Pinus radiata*, Australia, Chile 2009

Effect on the biomass production (dm<sup>3</sup>) after 2 years





Product	Composition	Characteristics	Packing
 <p>Basacote® Plus 6M / 9M</p> <p>12M / LR</p>	<p>16-8-12 (+2MgO+5S+TE's)</p> <p>15-8-12 (+2MgO+5S+TE's)</p>	<p>Controlled release fertilizer</p> <ul style="list-style-type: none"> <li>- 6/9/12/16 month longevity</li> <li>- incl. B, Cu, Fe, Mn, Mo, Zn</li> <li>- 100 % polymer-coated</li> </ul> <p>Granule size: 2.5–3.5 mm</p>	<p>Bag: 25 kg</p> <p>Pallet size: 42 x 25 kg = 1,050 kg</p> <p>Container: 20 x 1.05 mt (21 mt)</p>
 <p>Basacote® Plus 6M K / 9M K</p>	<p>11-11-16 (+2MgO+7S+TE's)</p>	<p>Controlled release fertilizer</p> <ul style="list-style-type: none"> <li>- 6/9 month longevity</li> <li>- incl. B, Cu, Fe, Mn, Mo, Zn</li> <li>- 100 % polymer-coated</li> </ul> <p>Granule size: 2.5–3.5 mm</p>	
 <p>Basacote® Starter 9M</p> <p>12M</p>	<p>16+25+6(+2,5+TE's)</p> <p>15-25-6(+2,5S+TE's)</p>	<p>Controlled release fertilizer</p> <ul style="list-style-type: none"> <li>- 6/9/12 month longevity</li> <li>- incl. B, Cu, Fe, Mn, Mo, Zn</li> <li>- 100 % polymer-coated</li> </ul> <p>Granule size: 2.0–4.0 mm</p>	
 <p>Basacote® P-Max 9M</p> <p>12M</p>	<p>17-43-0(+TE's)</p> <p>16-42-0(+TE's)</p>	<p>Controlled release fertilizer</p> <ul style="list-style-type: none"> <li>- 9/12 month longevity</li> <li>- incl. B, Cu, Fe, Mn, Mo, Zn</li> <li>- 100 % polymer-coated</li> </ul> <p>Granule size: 2.0–4.0 mm</p>	
 <p>Flexicote® LR 16M</p>	<p>19-5-9 (+2MgO+5,5S+TE's)</p>	<p>Controlled release fertilizer</p> <ul style="list-style-type: none"> <li>- 16 month longevity</li> <li>- 100% polymer-coated</li> <li>- incl. B, Cu, Zn</li> </ul> <p>Granule size: 2.0–5.0 mm</p>	

