



Powerful, Proven Pythium Control for Ornamentals

What is Banol?

A unique mode of action (FRAC 28), propamocarb hydrochloride targets Oomycetes (water-molds), including Pythium and Phytophthora species.

How does Banol work?

Delivering both curative and preventative action against Pythium and Phytophthora root and crown rot and damping-off in ornamentals. Minimizes resistance risk--No documented resistance in 40+ years of use. Provides long-lasting and systemic protection.

Fast-Acting & Reliable:

Rapidly reduces disease pressure and is highly effective-- even against Pythium isolates resistant to other fungicides.

Application Guidelines

Apply to slightly moist (not dry) media. Follow up with watering in to ensure adequate uptake.

Product Attributes

Banol is highly effective for curative situations and is also safe for young seedlings. Banol is ideal for use in rotation with other fungicides (such as Segway, Empress, Fame and Subdue Maxx) to delay resistance development and maintain long-term efficacy.

General Use Notes

Application Guidelines

- **Containers:** Drench or soil-directed spray for best results.
- **Seeding:** Apply to the seeding area using 3 quarts of solution/10 sq ft. Treat before sowing of seeds requiring light and after covering of seeds requiring dark for germination
- **Transplanting (seedlings):** Apply to the transplanting area using 3 quarts of solution/10 sq ft before transplanting.
- **Transplanting (Cuttings):** Drench the cutting bed using 2 gallons of solution/10 sq ft before setting.
- Dip bare root plants in solution before potting. Use the remaining solution as a potting drench: Apply 3.5 fl oz of solution per 4 inch pot.
- **Re-treatment interval:** 7-21 days, with a maximum of 3 applications per growing season--rotate with fungicide of different groups to manage resistance.

REI (Re-Entry Interval): 24 hours for container nurseries and greenhouses.

Highly compatible with other fungicides--ideal for tank mixing to broaden disease control spectrum.

Label use sites: container ornamentals in nursery and greenhouses; seeding beds, cutting beds, and as a dip prior to planting.

Table 1. Example rotation for control of Pythium root rot

Week	Trade Name	FRAC Group	Active Ingredient	Rate	Notes
1	Terrazole® L Terrazole® WP	14	etridiazole	2.5-7.0 fl oz 3.5-10.0 oz	Mix with water and apply as a soil drench, beginning at the time of seeding or transplanting. For use in commercial nurseries and greenhouses only. 28+ day
5	Banol®	28	propamocar b	20-30 fl oz	Highly recommended for the prevention of cutting rots of mum and poinsettia. The fire extinguisher for Pythium control. Reapply 7d- 6 mo
8	Segway®	21	cyazofamid	1.5-6 fl oz	Higher rates are needed for Phytophthora control. 14-28 day



Pythium in mum production Photo by Envu.



Phytophthora root and crown rot. Photo by Envu.

ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS

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