



# chipco® Signature™

## Product

## Reference

## Guide

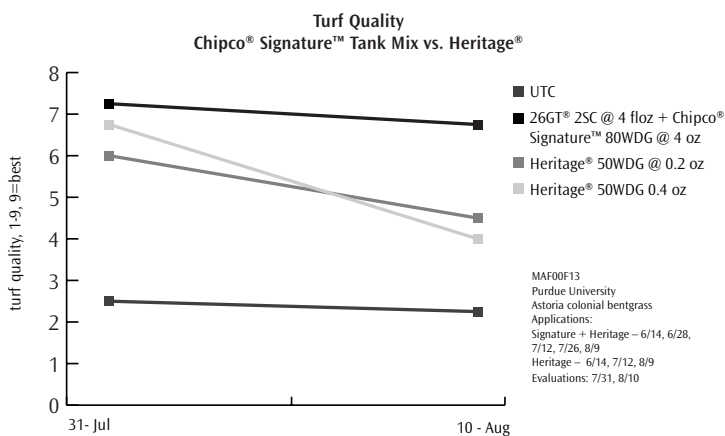
### PRODUCT OVERVIEW

Chipco® Signature™ is a patented truly systemic fungicide that is recognized as the foundation product of every seasonal turf quality program. Applying multiple Signature tank mixes prior to the onset of turf stress effectively protects turf from stresses associated with summer decline (high temperatures and humidity, increased traffic and low mowing heights) and winter decline (snow cover, high moisture and low temperatures). As a result, turf quality, which is measured in terms of color, vigor, uniformity, playability and disease control, is also improved.

### MODE OF ACTION/HOW PRODUCT WORKS

Signature improves turf quality and inhibits fungal growth and development in several ways. First, it helps turf to “self-manage” its stresses, through a complex series of actions. Second, it stimulates the production of phytoalexins, which are “natural pesticides” produced by the plant. Then, Signature increases the carbohydrates found in the plant tissue. This helps the turfgrass to better survive periods of stress. Finally, Signature stimulates the production of mycorrhizae, which improve the plant’s growth and health.

### TURF QUALITY & DISEASE CONTROL DATA



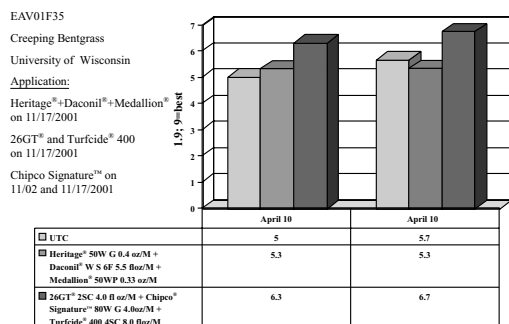
### Chipco Signature and Signature Tank Mixes for Disease Control

- Summer Decline Complex
- Pythium Diseases
- Anthracnose
- Bentgrass Deadspot
- Yellow Turf
- Gray Snow Mold
- Pink Snow Mold

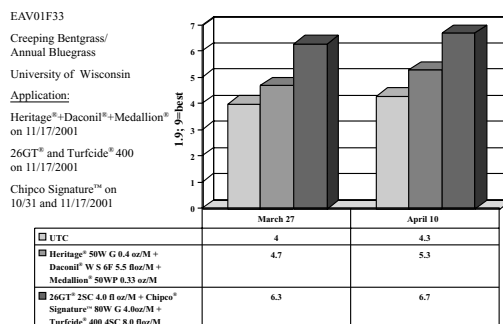
### Benefits

- No disease resistance in over 20 years
- Enhances ability of turf to “self-manage” stresses and fight off disease
- Unsurpassed improvement in turf quality
- Offers tank-mix flexibility with multiple fungicides
- Truly systemic, travels up and down within the plant

### Turf Quality on Creeping Bentgrass



### Turf Quality on Creeping Bentgrass and Annual Bluegrass



## Four Seasons of Turf Quality and Disease Control

### PROBLEM

### SOLUTION

PROBLEM	SOLUTION
<b>SUMMER</b>	
Summer Decline ( <i>Pythium</i> , anthracnose†, and <i>Rhizoctonia spp.</i> )	Signature™ + 26GT®
Pythium Diseases (Damping off, blight, crown and root rot)	Signature or Banol®
Anthracnose†	Signature + 26GT
Bentgrass Deadspot†	Signature + Daconil® or Fore® Rainshield™
<b>FALL</b>	
Yellow Tuft	Signature
<b>WINTER</b>	
Gray Snow Mold ( <i>Typhula spp.</i> )	Signature + 26GT or ProStar
Pink Snow Mold ( <i>Microdochium nivale</i> )	Signature + 26GT
<b>SPRING</b>	
Yellow Tuft	Signature

† Signature registration for anthracnose and bentgrass deadspot are pending in New York.

### FREQUENTLY ASKED QUESTIONS

**Q:** What is turf quality and how does Signature affect turf quality?

**A:** Turf quality is a measurement of vigor, disease control, root development, density, color, uniformity and overall appearance of turf. In trials, Signature tank mixes have been shown to increase the quality of turf in addition to providing effective disease control.

**Q:** What is the recommended summer decline management program for superintendents?

**A:** Application timing is important to achieve optimum results. It is critical that multiple applications are made prior to turf stress. In the Northern turfgrass zone, begin Signature tank-mix applications between May 15 and June 1, and continue every 14 days until summer decline is no longer a factor.



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