

## Application Recommendations for PREMION™

PREMION should be applied to turfgrass that is well established, actively growing, and not under excessive heat, moisture or turf growth regulator stress or drought stress. Use PREMION as part of a control program that consists of a sequence of fungicides that have proven efficacy against the target disease. Most of the research with PREMION evaluated it in combination with the pigment product Par® at 1 pint per acre, but other similar products will also further enhance turf tolerance.

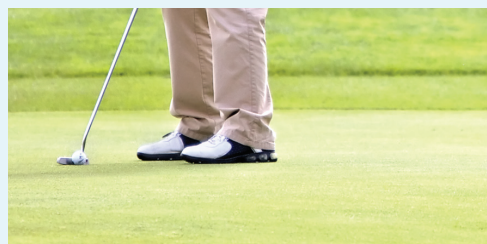


### Recommended Application Windows for PREMION:



### Recommended Application Rate for Greens and Tees:

For anthracnose control, PREMION should be applied at 8 fl. oz. per 1,000 square feet.



### Recommended Application Rate for Fairways:

For control of dollar spot and other spring/summer/fall diseases, PREMION should be applied at 6 fl. oz. per 1,000 square feet.



### Recommended Application Rates for Snow Mold Control:

For snow mold control on fairways, tees and greens, PREMION should be applied at 8 to 12 fl. oz. per 1,000 square feet.

Contact your AMVAC® distributor today or AMVAC at 1-800-GO-AMVAC (1-888-462-6822) and visit [amvacanswers.com](http://amvacanswers.com) for more information on PREMION and other AMVAC products.

Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status. The EPA registration number for Premion is 5481-585.  
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**PREMION™**  
FUNGICIDE

**A water-based fungicide to combat dollar spot, snow mold and anthracnose**

Dollar spot, brown patch and anthracnose are the scourge of golf course superintendents throughout the U.S. They're pervasive diseases that aren't picky about where they pop up, and few products combat all three easily.

Enter PREMION™ Fungicide.

PREMION Fungicide is the newest addition to the turf fungicide family at AMVAC. It is an effective, water-based solution to dollar spot and brown patch, and it works extremely well on anthracnose, too.

It's a pre-mix formulation that contains two proven fungicide active ingredients. Pentachloronitrobenzene (PCNB) is a contact fungicide and has been a premier active ingredient for controlling snow mold for more than 50 years. Tebuconazole is a systemic fungicide with a broad spectrum of activity and is one of the leading DMI fungicides in the turf market. Turfjet™ technology offers enhanced turf tolerance and an expanded application window for actively growing turfgrass.

## Dollar spot and brown patch are all wet

PREMION Fungicide is a water-based formula that gives users more options when it comes to integrating fairway disease management programs. Applied at the beginning and end of the season, PREMION provides dual modes of action along with both contact and systemic activity to be an integral part of control programs for dollar spot, brown patch and other problematic diseases. The figures below show selected treatments from recent brown patch and dollar spot trials.

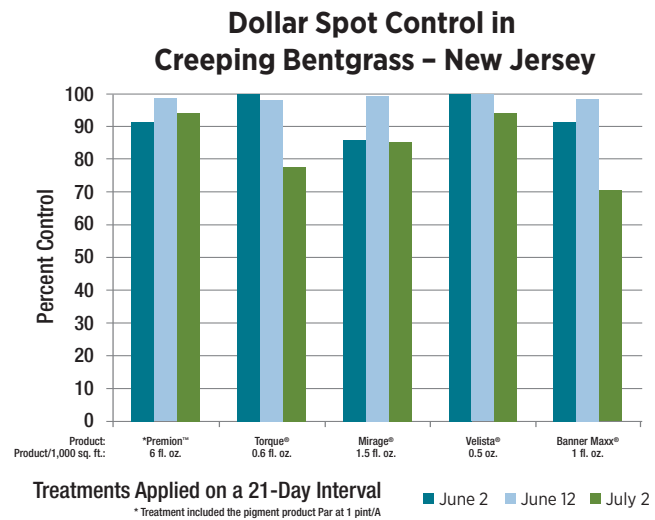


Figure 1: Selected treatments from a dollar spot trial conducted at Rutgers University. Data shown is from early evaluations that correspond to the suggested PREMION application window.

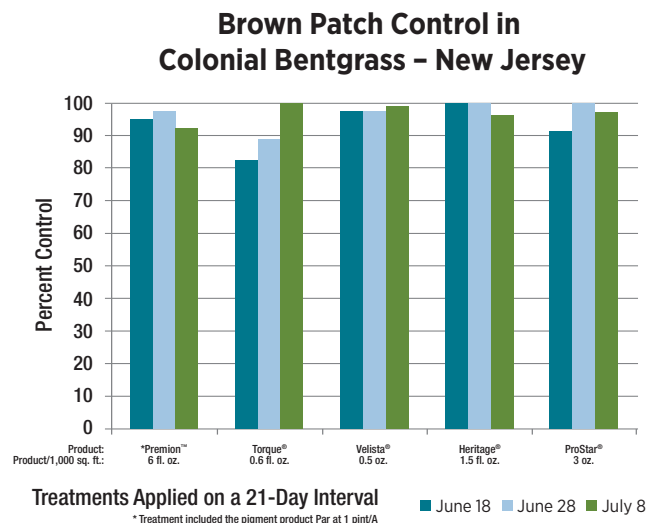


Figure 2: Selected treatments from a brown patch trial conducted at Rutgers University. Data shown is from early evaluations that correspond to the suggested PREMION application window.

## Two modes of action for anthracnose control

University turfgrass pathologists generally recommend initiating an anthracnose control program at least a month before symptoms historically first appear at a given site. They also recommend using at least two active ingredients with proven anthracnose activity in every spray targeting this disease. PREMION harnesses the power of PCNB and tebuconazole and provides two modes of action and both contact and systemic activity against anthracnose. In fact, PREMION is the only pre-mix product on the market that contains a FRAC Group 14 fungicide. This makes PREMION an important component of a resistance management program. Figure 3 shows the outstanding performance of the PREMION formula against anthracnose in recent independent field trials

Learn more about FRAC (Fungicide Resistance Action Committee) groups at [www.frac.info](http://www.frac.info).

## Anthracnose is one of the most difficult turfgrass diseases to manage

- May be present for long periods of time during the year
- Infects both creeping bentgrass and annual bluegrass as either a foliar blight or a basal rot
- Widespread resistance to strobilurin and benzimidazole fungicides
- Many anthracnose isolates exhibit lessened sensitivity to triazole fungicides
- The most challenging situation involves a resistant isolate causing basal rot of annual bluegrass as this host is succumbing to summer stress

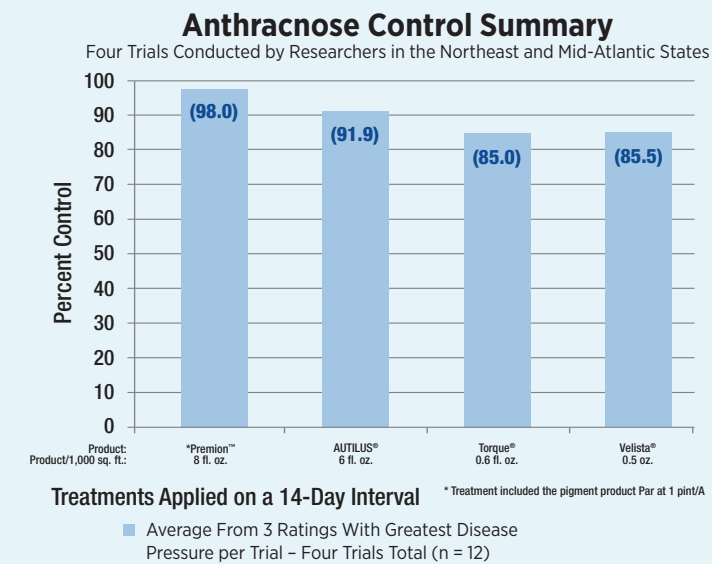


Figure 3: Cross-trial summary of four field trials conducted by researchers at Penn State University, Rutgers University, Turfgrass Disease Solutions and the University of Connecticut. Data from three assessment dates per trial were used for this comparison. The dates selected were those with the greatest anthracnose pressure in the untreated plots when the assessments were made within (or nearly so) the application interval of 14 days.

## Finish the Season With a PREMION Snow Mold Application

When preparing courses for winter, superintendents in the northern part of the country can rest assured knowing that the active ingredients in PREMION are renowned for their effectiveness against snow mold pathogens.

### Snow Mold Control on Golf Course Fairways

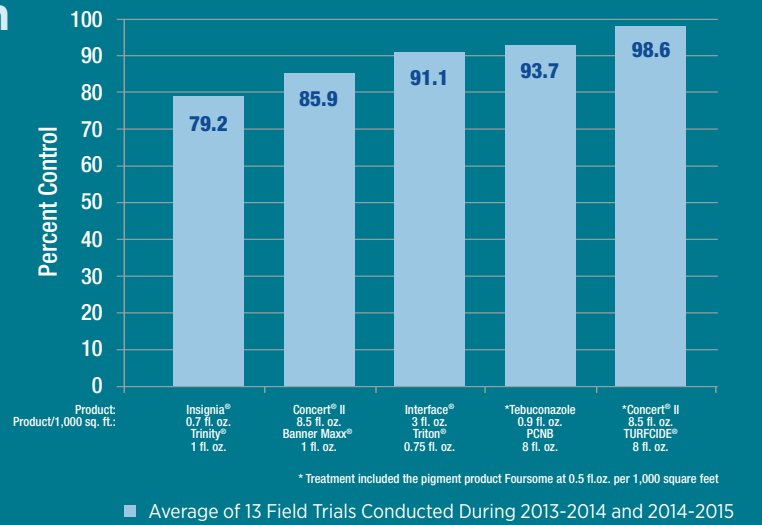


Figure 4: Cross-trial summary of 13 field trials conducted during the winters of 2013-2014 and 2014-2015. Untreated plots averaged 63.4% snow mold in these trials (range 27.6–95.0%). All three major snow mold pathogens are included in this subset of data. Trials were conducted in Michigan, Montana, New Jersey, Pennsylvania, Utah, Washington and Wisconsin. The combination of PCNB plus tebuconazole provides excellent snow mold control.

