

# CIVITAS TURF DEFENSE™ TANK MIX RECOMMENDATIONS



## ANTHRACNOSE

Preventative / Curative	Product / Tank Mix **	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX™ + CIVITAS HARMONIZER™	8 + 0.5 to 16 + 1	7 – 14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% ai) Chlorothalonil (82.5% ai)	8 + 0.5 to 16 + 1 1.0 2.75	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Trifloxystrobin (50% ai)	8 + 0.5 to 16 + 1 0.15	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Metconazole (50% ai)	8 + 0.5 to 16 + 1 0.28	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Tebuconazole (38.7% ai)	8 + 0.5 to 16 + 1 0.6	14 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Polyoxin D Zinc salt (2.5% ai)	8 + 0.5 to 16 + 1 4.0	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Fosetyl-AI (80% ai)	8 + 0.5 to 16 + 1 4.0	14

\*\*Note: Research suggests program approach to anthracnose control including rotation of tank mix partners.

## BROWN PATCH

Preventative	Product	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14

  

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Fludioxonil (50% ai)	8 + 0.5 to 16 + 1 0.5	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% ai) Chlorothalonil (82.5% ai)	8 + 0.5 to 16 + 1 1.0 1.8	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Flutolanil (70% ai)	8 + 0.5 to 16 + 1 1.5	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Metconazole (50% ai)	8 + 0.5 to 16 + 1 0.28	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% ai)	8 + 0.5 to 16 + 1 1.0	14 – 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Azoxystrobin (50% ai)	8 + 0.5 to 16 + 1 0.2	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Iprodione (23.3% ai)	8 + 0.5 to 16 + 1 3.0	14

## DOLLAR SPOT

Preventative	Product	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14

  

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% ai)	8 + 0.5 to 16 + 1 1.0	14 – 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% ai) Chlorothalonil (82.5% ai)	8 + 0.5 to 16 + 1 1.0 1.8	7 – 14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Tebuconazole (38.7% ai)	8 + 0.5 to 16 + 1 0.6	14 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Metconazole (50% ai)	8 + 0.5 to 16 + 1 0.18	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Boscalid (70.0% ai)	8 + 0.5 to 16 + 1 0.13	14 – 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Vinclozolin (50.0% ai)	8 + 0.5 to 16 + 1 1.0	14 – 21
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Iprodione (23.3% ai)	8 + 0.5 to 16 + 1 3.0	14

## FUSARIUM PATCH

Preventative	Product	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	14 – 21

  

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	14
	Propiconazole (14.3% ai)	2.0	
	Chlorothalonil (82.5% ai)	5.0	21 – 28
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	14 – 21
	Propiconazole (14.3% ai)	2.0	

## CROWN RUST

Preventative / Curative	Product / Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	21
	Azoxystrobin (8.8% ai)	1.0	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	21
	Propiconazole (14.3% ai)	1.0	

## GRAY LEAF SPOT

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5	14
	Thiophanate-Methyl (50% ai)	4.0	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	Chlorothalonil (82.5% ai)	1.8	7 – 10
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	Azoxystrobin (8.8% ai)	1.0	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	Pyraclostrobin (20% ai)	0.5	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	Mancozeb (80% ai)	8.0	

## LEAF SPOT / MELTING-OUT

Preventative / Curative	Product / Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5	14
	Chlorothalonil (82.5% ai)	1.8	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	8 + 0.5 to 16 + 1	14
	Azoxystrobin (50% ai)	0.2	

## LARGE PATCH OF ZOYSIA

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	2 apps in early Fall (Sep, Oct). It is critical to apply before the plant has become dormant
	Tebuconazole	0.6	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	2 apps in early Fall (Sep, Oct). It is critical to apply before the plant has become dormant
	Azoxystrobin (50% ai)	0.4	

## SNOW MOLD

Preventative	Product	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	Early and Late	2 applications spaced 14 – 21 days apart
	Chlorothalonil (29.2% ai)	16 + 1	
	Fludioxonil (1.2% ai)	Late 5.5-9.4	
	Propiconazole (4.74% ai)		Apply with final application of CIVITAS TURF DEFENSE
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	Early and Late	2 Applications spaced 14 – 21 days apart
	Tebuconazole	16 + 1	Apply with final application of CIVITAS TURF DEFENSE
	Iprodione (23.3%)	Early 0.6	
		Late 4.0	
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	Early and Late	2 applications spaced 14 – 21 days apart
	Tebuconazole	16 + 1	Apply with final application of CIVITAS TURF DEFENSE
		Late 0.6	

Preventative	Product	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Tebuconazole	Early and Late 16 + 1 Late 1.5	2 applications spaced 14 – 21 days apart  Apply with final application of CIVITAS TURF DEFENSE
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Propiconazole (14.3% a.i.) Chlorothalonil (82.5%)	Early and Late 16 + 1 Early 2.0 Late 5.0	2 Applications spaced 14 – 21 days apart  Apply with final application of CIVITAS TURF DEFENSE

### SOUTHERN BLIGHT

Preventative / Curative	Product / Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER	16 + 1	14
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Flutolanil (70% ai)	16 + 1 1.5	14 21

### SPRING DEAD SPOT

Preventative / Curative	Tank Mix	Rate, oz. per 1000 sq. ft.	Frequency (days)
	CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER Fenarimol** (11.6% ai)	16 + 1 4.0	2 apps in early Fall (Sep, Oct), 14-30 days apart

\*\*Note: Following application of Fenarimol, turfgrass should be irrigated with 0.5 inches of water.

## CIVITAS TURF DEFENSE Overview

CIVITAS TURF DEFENSE is used on golf courses to protect turf against pathogens and the elements with no known resistance risks. CIVITAS TURF DEFENSE delivers effective protection against threats to your turf's health. Treating damaged turf takes more time, effort and resources than simply maintaining healthy turf. What it takes to prevent turf damage from disease is CIVITAS TURF DEFENSE in your IPM program.

**CIVITAS TURF DEFENSE PRE-MIXED™ can be used to replace CIVITAS TURF DEFENSE READY-2-MIX + CIVITAS HARMONIZER at the corresponding rate (8oz. CIVITAS TURF DEFENSE READY-2-MIX + 0.5oz. CIVITAS HARMONIZER = 8.5oz. CIVITAS TURF DEFENSE PRE-MIXED)**

Always read and follow product label instructions. Use of the product that varies in any way from the product label instructions is a violation of federal and state law.

AS PER LABEL INSTRUCTIONS, ALWAYS USE CIVITAS TURF DEFENSE READY-2-MIX™ AND CIVITAS HARMONIZER™ TOGETHER.

Patent(s): [www.suncor.com/patents](http://www.suncor.com/patents)

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