

Foursome Turf Pigment

Turf Colour Enhancement Tool and Spray Pattern Indicator

'Unlike other green pigments used in applying chemicals, Foursome compliments the natural shades of the plant leaves and does not wash away quickly, and with multiple applications a strong base colour can be established'.
— **Tom Vlach, 2011, TPC Sawgrass Agronomy, Ponte Verde Beach, Florida.**

Product Overview

Foursome is a unique, concentrated copper phthalocaynine green turf pigment, specifically designed to enhance and extend the aesthetic appearance of golf course and sportsfield turf following application.

Foursome can also be used as a spray pattern indicator to help promote uniform application of nutritional and surfactant materials, producing a more consistent turf response.

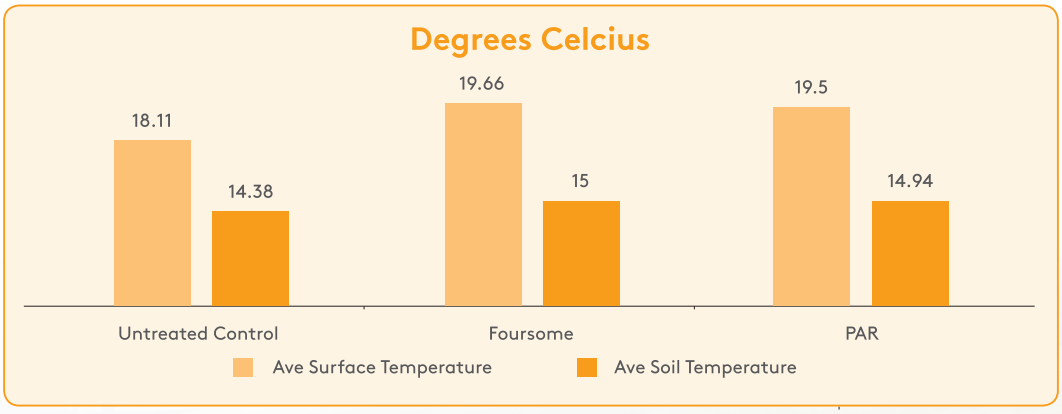
Foursome can be used for colour improvement and growth during the cooler months of the year. It may also improve spring green up and establishment.

Foursome can also be used as a summer stress tool, by working as a sunscreen for plants, by blocking out harmful UV, but allowing light waves into the plant that are required for photosynthesis.

Foursome is designed for use on all turfgrass species in a wide range of climates and different turfgrass management intensity levels.

Mode of Action

Foursome contains a green coloured aromatic macrocyclic compound called phthalocyanine. The phthalocyanine found in Foursome contains a copper (Cu) atom. Phthalocyanine is very similar in chemical structure to naturally occurring compounds such as chlorophyll. As a consequence, it absorbs light strongly in the visible spectrum, which in the cooler months of the year improves the plant's ability to grow and metabolise nutrients. At this time of the year Foursome has been found to significantly improve surface and soil temperatures (up to 1.5°C increase) over the untreated control.



Source: Brian Whitlark and Kai Umeda: A New Hue: A guide to using colorants to enhance the color and growth of fine turfgrasses in the southwestern U.S. USGA Green Section Record Vol. 50 (20) Sept 21, 2012.
Foursome and Par applied at 1.45L/ha

In addition to this, research suggests that Foursome can also increase reflectance of the infared (IR) and near infared (NIR) wavelengths. NIR light not reflected can cause plant damage to turf from oxidative stress related conditions, particularly during the warmer summer months. As a result, when Foursome is applied routinely during the summer, overall plant quality is improved over untreated controls.

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Plot Quality Assessments - Oregon State University Trial for Anthracnose Control - Late Summer, 2010.

Treatment	26-Aug	9-Sep	Sep-30	Plot Quality Cumulative
Untreated Control	6.5	6.1	6.2	6.7
Foursome 1.2L/ha	8.1	7.1	6.6	7.8
Foursome 1.2L/ha + Fosteyl 800 13kg/ha	7.7	7.1	6.6	7.6
Foursome 1.2L/ha + Fosteyl 800 13kg/ha + Chlorothalonil 10L/ha	8.1	7.1	7	7.8
Fosetyl 800 13kg/ha	6.4	5.8	6.3	6.7
Reserve 4.8SC 14.5L/ha	7.1	6.2	6.5	6.7
LSD	0.6	0.5	0.5	Na

Rating: 1-9, 9=best.
Source: 2010 Evalution of Fungicides for the Control of Anthracnose on an Annual Bluegrass Putting Green.
http://horticulture.oregonstate.edu/content/2010-evaluation-fungicides-control-anthracnose-annual-bluegrass-putting-green

Use Rates

Foursome is applied at a rate of 1.1-1.5 Litres per hectare. A rate of 1.2 L/ha is suggested as the initial rate. Apply in a minimum water volume of 300L per hectare. To improve longevity and performance it is recommended to tank mix Foursome with Encase Anti-transpirant at a rate of 5-10L/ha. This will improve longevity, whilst providing additional plant health benefits.

For best results, avoid overspray onto concrete, masonry, or any other objects where colour is not desired. Accidental overspray may be removed by a water rinse prior to drying.

Features and Benefits

Features	Benefits
Phthalocyanine based pigment.	Superior weatherfastness and resistance to fading from UV exposure. Not a paint that impacts on the plants ability to carry out photosynthesis and doesn't block the stomata unlike some other products.
Effective for use as a long lasting spray indicator.	More than just a spray marker. Provides turf enhancement properties as well.
Colour enhancement in cooler growing months.	It may also improve spring green up and establishment.
Plant Improvement in summer growing months.	Acts as a sunscreen for plants, by blocking out harmful UV.
Designed for use on all turfgrass species in a wide range of climates and different turfgrass management intensity levels.	Versatile, easy to use, applicable to any turf management situation.

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