

# Improve Turf Quality and Reduce Maintenance Costs With Turf Screen

Since its introduction in 2010 by a former golf course superintendent, *Turf Screen*™ has received widespread recognition from golf courses throughout the US and Canada for its ability to help turfgrass cope with summer stress conditions (<http://turfscreen.com/blogs/testimonials>). But *Turf Screen* helps superintendents do their job better and more effectively in other ways, too. Research studies by independent testing laboratories and universities have verified that *Turf Screen* improves fungicide efficacy and duration when part of a sound agronomic maintenance program. *Turf Screen* can also help provide firmer and faster playing conditions, and reduce overall maintenance costs.

So, how can such a simple concept and product – a pigmented “sunscreen for turf” – achieve these wide-ranging and important benefits? Very simply, its patented formulation of titanium dioxide and zinc oxide, which puts *Turf Screen* in a pigment class all by itself. Here’s how it works.

## Refractive Index:

Due to their high refractive index, TiO<sub>2</sub> and ZnO are the only FDA-approved natural ingredients for human sunscreen. In simple terms, TiO<sub>2</sub> and ZnO reflect solar radiation away from its surface – particularly plant-damaging UVB and IR radiation. UVB is widely known to be greatly damaging to turf, up to and including cell collapse and death. Additionally, UVB has been demonstrated to damage the plant mechanisms directly responsible for photosynthesis production. Solar radiation’s IR component is a major source of plant overheating on hot days. It’s pretty simple: by reflecting and reducing UVB and IR exposure, *Turf Screen* improves turf quality and allows turf to better withstand extreme summer stress conditions.

## Fungicide Photo-degradation:

If you spray fungicides, add *Turf Screen* to the tank-mix to improve fungicide performance. Many fungicides are highly susceptible to UVB radiation and will breakdown rapidly from exposure to solar radiation. *Turf Screen* reduces the fungicide degradation effects of UVB radiation so fungicides stay intact longer on the turf.

## Sticking Technology:

We’ve all heard fungicide companies tout the next generation of weather sticking technology. But none comes close to matching the incredible sticking power of *Turf Screen*. TiO<sub>2</sub> and ZnO are used exclusively in primer paints because of their excellent ability to cling to surfaces and not wash off. Independent laboratory testing in 2011 showed that *Turf Screen* was able to stick to turf for over 100 days! *Turf Screen* enhances the sticking power of everything else in the mixing tank.

## Product Safety and Inertness:

TiO<sub>2</sub> and ZnO are non-hazardous and completely inert. Their safety is indicated by their wide use in human sunscreens, and ZnO is a well-known treatment for babies’ diaper rash. Humans ingest TiO<sub>2</sub> and ZnO every day since the food industry uses them extensively to make products like milk and sour cream look whiter. Because of their chemical inertness, they are extremely safe on turf. They simply cannot have a reaction in your spray tank or on your turf.

If you are looking for commonsense, safe and effective ways to improve turf quality and cut your maintenance costs, try *Turf Screen* today. Its effectiveness, versatility and affordability will impress you. Visit [www.turfscreen.com](http://www.turfscreen.com) today for more information.