

Super Take All Resistor

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PRESTIGE®

Prestige Super Take All Resistor is a concentrated 8% W/V manganese supplement containing a recovery agent based upon amino acids and carbohydrates. Includes a complexing and stability agent to ensure efficient uptake and produce stable complexes over a wide pH range.

- 1** Preventative and Recovery Application Rate: 5 -10 ltr/ha in 500 litres of water at monthly intervals.
- 2** Preventive, curative, and recovery agent for Take All Patch.
- 3** Non-fungicidal management approach for Take All Patch.
- 4** Provides relief from summer stress.
- 5** Contains wide range of amino acids and carbohydrates for an immediate source of energy to the plant.
- 6** Acidifying effect (lowers the pH) to help prevent disease on all types of turf.
- 7** Pack Coverage: 10,000 - 20,000 sq.m

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Biological /
Bio-Stimulants

PRESTIGE®
Super Turf Solutions

Prestige Super Take All Resistor

A concentrated 8% W/V manganese supplement containing a recovery agent based upon amino acids and carbohydrates. Includes a complexing and stability agent to ensure efficient uptake and produce stable complexes over a wide pH range.

Features and Benefits

- The application of manganese sulphate has been shown to reduce the severity of Take All Patch.
- Preventive, curative, and recovery agent for Take All Patch.
- Non fungicidal management approach for Take All Patch.
- Complexed manganese (Glycine L-form amino acid) to increase plant uptake.
- Easy to mix within the spray tank.
- Provides relief from summer stress.
- Contains wide range of amino acids and carbohydrates for an immediate source of energy to the plant.
- Acidifying effect (lowers the pH) to help prevent disease on all types of turf.

What Is Take All Patch

Take All Patch is an important disease particularly on newly established strands of creeping bent grass turf. The disease first appears in late spring or early summer, as a patch of bronze or bleached turf. The centre of the patch eventually dies, this can give rise to weeds particularly annual meadow grass.

Patches range from 10-15 cm in diameter at first but may grow into large patches (50cm in diameter) over a period of years. Plants affected have shallow root systems and are easily pulled out of the ground. Black runner hyphae of the fungus can be observed on crowns and roots microscopically.

The pathogen can survive on thatch and dead tissue as dormant mycelium. The fungus attacks crown and root tissues of the plant during the cool, wet weather of the Spring and Autumn. It is most severe on newly seeded or over-sown established bent grass. Development can be favoured by applications of lime, Alkaline top dressing and by high soil pH.



Left image- Typical appearance of Take All Patch on a bent/annual meadow grass golf green. Annual meadow grass in centre of ring. Dying ring of bent

Correct nitrogen fertility is important in managing Take All Patch. Urea-based fertilisers can be effective in managing the disease when applied at adequate levels to creeping bent grass turf stands. Liming should be avoided in areas where Take All Patch is a problem, as an alkaline pH favours the disease. Soil pH should be below 6.5, preferably between 5.5 and 6.0.

Manganese deficiency has shown to greatly enhance Take All Patch development, therefore adequate manganese fertility should be practiced depending on soil and tissue analysis. Excessive irrigation should also be avoided and wetting agents can be used to stop grass with damaged root systems drying out.

What Is Prestige Super Take All Resistor

Prestige Super Take All Resistor is a concentrated manganese supplement containing a recovery agent based upon amino acids and carbohydrates. It also includes a complexing and stability agent to ensure efficient uptake and produce stable complexes over a wide pH range.

High Manganese

Manganese deficiency is a problem in the UK. Although most soils contain enough manganese, the soil pH (alkaline soils) influences availability to the plant. Manganese deficiency has shown to greatly enhance Take All Patch development, therefore adequate manganese fertility should be practiced as the application of manganese sulphate has been shown to reduce the severity and enhance recovery of Take All Patch.

Prestige Super Take All Resistor contains 8% w/v manganese to reduce the severity of Take All Patch Disease.

Rooting and Recovery Agent

Prestige Super Take All Resistor contains a blend of root enhancing and plant stress relief biostimulants to increase secondary and tertiary root hair structure, this is based on short chain carbohydrates and amino acids.

When the plant is under considerable amounts of stress it cannot produce enough carbohydrates itself to meet demands. Prestige Super Take All Resistor contains a source of carbohydrates to provide an immediate energy source for the plant to relieve stress symptoms.

Amino Acids

When stress situations occur, the plant cannot produce enough of the required amount of amino acids, therefore there is a greater demand for amino acids than the plant can meet.

Prestige Super Take All Resistor contains a full range of amino acids for the plant, which it can utilise and can cross the membranes of cells into the root under stress conditions. It also strengthens the plant prior to the onset of abiotic stress symptoms and act as a recovery of the plant when the plant is under considerable environmental stresses such as disease pressure.

Complexing and Compatibility Agent

Prestige Super Take All Resistor contains a complexing agent to ensure efficient uptake and produces stable complexes over a wide pH range. This makes Prestige Super Take All Resistor the ideal tank mix partner with other nutritional products from the Prestige range, see Prestige tank mix chart.

Acidifying Effect

Prestige Super Take All Resistor can also be used as part of an integrated disease management approach to control Take All Patch Disease. The product acts by acidifying the stem base, changing the localised environmental detrimental to the disease and by naturally hardening the plant to resist attack by Take All Patch.

Application Rates

Preventative Application Rate:

Apply Prestige Super Take All Resistor at 5-10lts per ha in 500lts of water at monthly intervals.

Recovery Application Rate:

Apply Prestige Super Take All Resistor at 5-10lts per ha in 500lts of water at monthly intervals, or in extreme circumstances use every 14 days at 10 litres per ha

Prestige Super Take All Resistor can be tank mixed with Prestige Super Replenish Plus wetting agent.
For optimum results use at a higher water rate of 700lts of water.