

TURF TOUGHENING



During the busy Winter sports season, sports turf is often damaged by the pressures of high usage at a time of the year when turf is not actively growing. The damage results in the turf being more susceptible to disease and weeds can often invade. For this reason, Technigro recommends year round programmed applications of products containing Potassium Silica to strengthen the leaf and protect the plant resulting in a healthier plant.

Benefits of Potassium Silica applications

- > Reduces wear in high traffic areas
- > Improved cutability and strength in leaf
- > Improved ball roll on sports fields
- > Enhances turf grass immune system and resistance to disease

Potassium

Potassium is an essential nutrient for plant growth. It regulates the turgidity of cells, maintains cell division, and assists in the formation of proteins, carbohydrates and fats.

Potassium uptake is adversely affected by low soil moisture, low soil aeration and oxygen levels, and cooler soil temperatures.

Potassium stimulates early growth; increases protein production; improves the efficiency of water use; is vital for stand persistence, longevity and winter hardiness; and improves resistance to diseases and insects.

Silica

Silicon associates with calcium and pectins to stabilise cell walls and increase a plants ability to handle stress conditions.

Silica increases the strength of cell walls and xylem vessels. This improves the shoot rigidity and turgidity, resulting in a better cut and increased stimp speed. It also increases the leaf erectness and light interception, resulting in a better leaf colour.

When deposited in the endodermis of roots, Silica forms a physical barrier.

Application

It is suggested to take a programmed approach to Potassium Silica applications, with multiple applications required to maintain a balanced level of nutrition over the season. Benefits of cool season applications include resistance to wear and the ability to tolerate low rainfall periods while applications during Summer can increase ball roll and resistance to disease.