



DEFCON DURATION

New Technology Long Lasting Surfactant

DEFCON DURATION is a safe and effective long-lasting soil surfactant designed for use on fine turfgrass. Once in the rootzone, **DEFCON DURATION** alleviates soil water repellency, the cause of localised dry spot (LDS). **DEFCON DURATION** enhances the infiltration and overall movement of water in the rootzone to provide enhanced turf performance.

Turf under stress, decline or wilt caused by water repellency can be observed almost anywhere on the golf course during periods of prolonged environmental stress.

During the growing season, organic acids are produced through the natural degradation of plant residues and through microbial activity. These organic acids can form a “coating” on thatch and soil particles that, when exposed to higher temperatures and low moisture conditions, can progressively render them water repellent (hydrophobic). Water repellency occurs because the organic acid coating has no charge (non-polar) for the water molecules to become attached.

Superintendents recognize the value of using surfactants to manage water repellent areas. Most surfactants, however, require monthly or even weekly applications to manage water-related stress conditions. Previous attempts to extend the time interval between older surfactant applications usually resulted in inconsistent performance. For this reason, many superintendents have chosen not to use surfactants - particularly in areas of the course where it is inconvenient or impractical to make weekly or monthly applications - until now.

THE SOLUTION

The chemical structure in **DEFCON DURATION** formulation is different than other surfactant products. Its unique chemistry allows for a higher concentration of surfactant molecules to

be applied per treatment, which contributes to longer lasting control. In addition, the polymeric concentration of **DEFCON DURATION** provides a distinct pattern of hydration that, when properly applied, will maintain surfactant moisture levels in the rootzone under normal irrigation practices to sustain plant vigour, even under extended periods of high temperature environmental stress. The surfactant chemistry in **DEFCON DURATION** was also chosen for its safety.

Turf managers have reported that following the use of **DEFCON DURATION**, you can expect:

- Reduced water repellency in the rootzone up to 3 months
- Improved water movement into the rootzone
- Maintained turf quality under prolonged temperature related stress periods
- Flexibility may be applied early in the season.

ACTIVE INGREDIENT

99% Alkoxylated Polyols

DIRECTIONS FOR USE:

Greens, Tees, Fairways, Lawns and Sports Turf

Full-Rate Application:

Apply **DEFCON DURATION** at 500 mL / 100m² in 20 L of water. Irrigation is required after each application in sufficient amounts to remove **DEFCON DURATION** from leaf surfaces. Reapply after 3 months or as necessary.

Split Application:

Apply 250 mL / 100m² in 7.5 L of water. Follow up with second applications of 250 mL / 100m² 7-10 days later. Irrigation is required after each application in sufficient amounts to remove **DEFCON DURATION** from leaf surfaces. Reapply after 3 months or as necessary.

DEFCON DURATION is intended for use only as a single component in a spray application.