

HYDROZONE

Hydrozone™ is a 100% active (no diluents as supplied) non-ionic wetting agent developed for use on sports turf to prevent localised dry patch (LDP) and give additional benefits in relation to the use and action of water.

Hydrozone has been carefully engineered for maximum performance giving long residence time and a highly effective wetting action.

LDP can arise from hydrophobic soil conditions which may in turn arise from plant breakdown material, animal sources, fungi and critically low soil moisture content. Hydrophobic soils can inhibit even distribution of water in the soil profile, denying grass roots an adequate supply of water, water soluble nutrients and applied treatments.

Mode of Action

Hydrozone works by lowering the interfacial tension between water and other substrates (specifically soil constituents and grass roots) – this enables contact angles to be reduced and water to spread out laterally through the soil profile and flow into areas that were previously water repellent.

Benefits and Features

- Treatment and preventative for localised dry patch
- Contains a special surfactant to aid the initial spread into the rootzone
- Non-phytotoxic at use concentrations
- Non-scorch formula
- Excellent tank mix compatibility
- Potential to reduce water consumption where no turf wetter is currently used
- Assists in maximising the effectiveness of a range of soil chemicals and fertilisers

Please see the wetting agent introductory information for a fuller list of benefits of wetting agents.

Properties:

Appearance	Clear viscous liquid at room temperature
Solidification point	Below minus 15°C
Viscosity	600cP at 20°C
Maximum solubility	5-8% over typical temperature range
Surface tension	25 dynes/cm (3.5% solution in water)



Application

Hydrozone must be diluted in water prior to spray application. Hydrozone should be added to water rather than water added to Hydrozone – this avoids the potential for gel phases to form.

Hydrozone has widespread tank mix compatibility, however a jar test should be conducted first. Speak to your technical sales contact for any advice.

Monthly application – March/April until September/October:

Zone	Hydrozone	Water Volume	Area	Notes
Greens/Tees/ Sports Pitches	20 litres (preferred) 10-20 litres under conditions of low drought stress	300-600 litres	1 hectare	Do not exceed solution strength of 5%. Water in within 24/48 hours and before cutting to avoid reduced performance.
Fairways	10-20 litres	300-600 litres	1 hectare	
Bowling Greens	1.5-3 litres	45-135 litres	1500m ²	

90 day application – start March/April, repeat 90 days later:

Zone	Hydrozone	Water Volume	Area	Notes
Greens/Tees/ Sports Pitches	50 litres	1000 litres	1 hectare	Do not exceed solution strength of 5%. Water in within 24/48 hours and before cutting to avoid reduced performance.
Fairways	25-50 litres	500-1000 litres	1 hectare	
Bowling Greens	7.5 litres	150 litres	1500m ²	

Pack sizes available

5 litre, 20 litre, 120 litre, 200 litre drums, 1000 litre IBC