



**AQUA-ZORB™**



# The ultimate wetting agent



*Treats the  
cause of  
localised  
Dry Patch*



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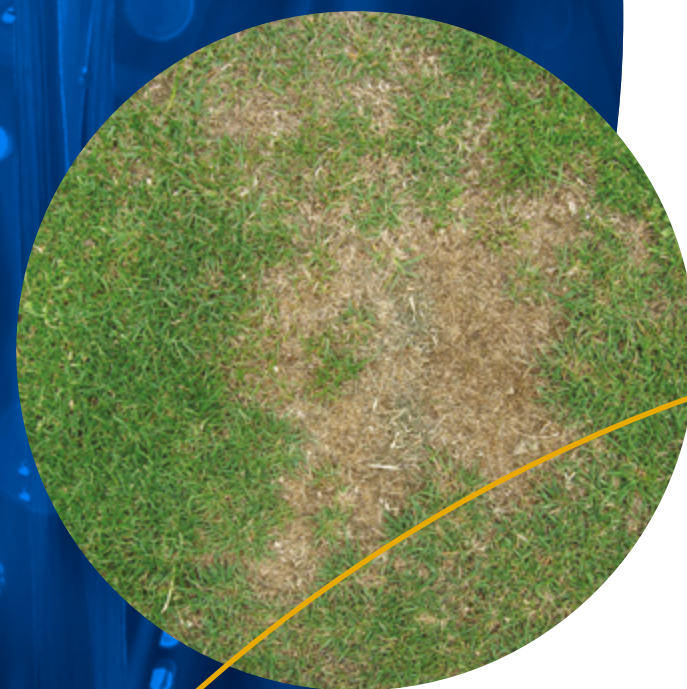


# Dry Patch

**Water is a very polar molecule; having two tiny, positively charged hydrogen atoms attached to a relatively large oxygen atom bearing two negative charges.**

Water molecules act like bar magnets, pulling the oppositely charged end of an adjacent water molecule towards itself, building long chains that eventually form a spherical droplet. Water is attracted to charged surfaces such as soil and on contact the droplets will coalesce and spread over the surface; eventually soaking deep into the soil due to the attraction from soil particles lower down.

Dry Patch (hydrophobic soil) is the result of wax secretion by soil fungi. This wax coats the soil particles removing their charge, so water molecules have nothing to attach to. This causes the water to form droplets which are unable to travel through soil.



Aqua-Zorb is a well proven range of water management products that will correct and prevent localised Dry Patch. In addition, the use of Aqua-Zorb will:

- Improve drainage
- Alleviate compaction
- Reduce quantity of irrigation required
- Reduce the incidence of dew
- Greatly improve the quality of the sward

Dry Patch (hydrophobic soil) is the result of wax secretion by soil fungi. The wax coats soil particles, making them repel water.

Trials at the Sports Turf Research Institute (STRI) demonstrated that Aqua-Zorb is also effective in removing the wax coating on soil particles, allowing water to penetrate more effectively.



***A well proven range of water management products that will correct and prevent localised Dry Patch.***



# Aqua-Zorb Liquid



The long-lasting residual technology in Aqua-Zorb Liquid ensures that a single application persists for up to five months, during the higher summer temperatures. This means one application can last all season.



Aqua-Zorb Liquid is the ultimate wetting agent for the treatment of localised Dry Patch. It is a concentrated non-ionic turf wetting agent that will enable water to move faster and deeper into the soil profile.

The long-lasting residual technology in Aqua-Zorb Liquid ensures that a single application persists for up to five months, during the higher summer temperatures. This means one application can last all season.

The product can also be applied in the autumn to improve drainage of winter rainfall and effectively reduce the formation of dew.

### Trials

Research from the University of Georgia has proved that turf treated with Aqua-Zorb requires less than half the water necessary to achieve the desired soil moisture level of 15%, when compared to untreated turf. The resultant water saving through the year more than offsets the cost of applying Aqua-Zorb.

### Application Information

Always spray in the cool of the day or during rainfall. Do not spray in high temperatures or bright sunlight. Irrigate immediately after spraying with a minimum 3mm of water, or spray during rainfall, this is to remove the product from the leaf surface.

J	F	M	A	M	J	J	A	S	O	N	D

	Apply to reduce the incidence of Dry Patch throughout the spring and summer
	Apply to improve drainage and relieve water holding through the winter months

Surface/treatment	Aqua-Zorb	Water	Frequency of application
Golf greens/tees	50l/ha	10,000l/ha	Once per season
Fairways and sports grounds	20l/ha	4,000l/ha	Spring and autumn application

Lower water volumes can be used if the product is thoroughly irrigated after application.

Pack size: 10l



# Aqua-Zorb Granular



**Aqua-Zorb Granular is a biodegradable granule, containing a non-ionic water management product for the treatment of all hydrophobic soil conditions.**

The product has been formulated as an easy-to-apply granule that breaks down rapidly, giving fast penetration to speed turf recovery.

Unique technology used in the formulation of Aqua-Zorb Granular gives a long-lasting residual effect that ensures one application persists for up to five months. It can be used throughout the year to improve turf quality and colour, where Dry Patch is severe.

Aqua-Zorb Granular can be used as a blanket treatment by broadcasting the granules over the entire surface of the sward. If applied after aeration, the granules will penetrate deeper into the soil profile to give a more rapid response to deep-seated Dry Patch.

Spot treatment of banks, exposed windy areas, or other sites where liquid application is difficult can provide an economical approach to keeping turf healthy during dry conditions.

## Application Information

Apply evenly at a rate of 30g/m<sup>2</sup> using conventional fertiliser spreading equipment.

To ensure thorough penetration of Aqua-Zorb Granular into the root-zone, areas should be irrigated immediately after application or product should be applied when rainfall is imminent.

J	F	M	A	M	J	J	A	S	O	N	D

 Usage period

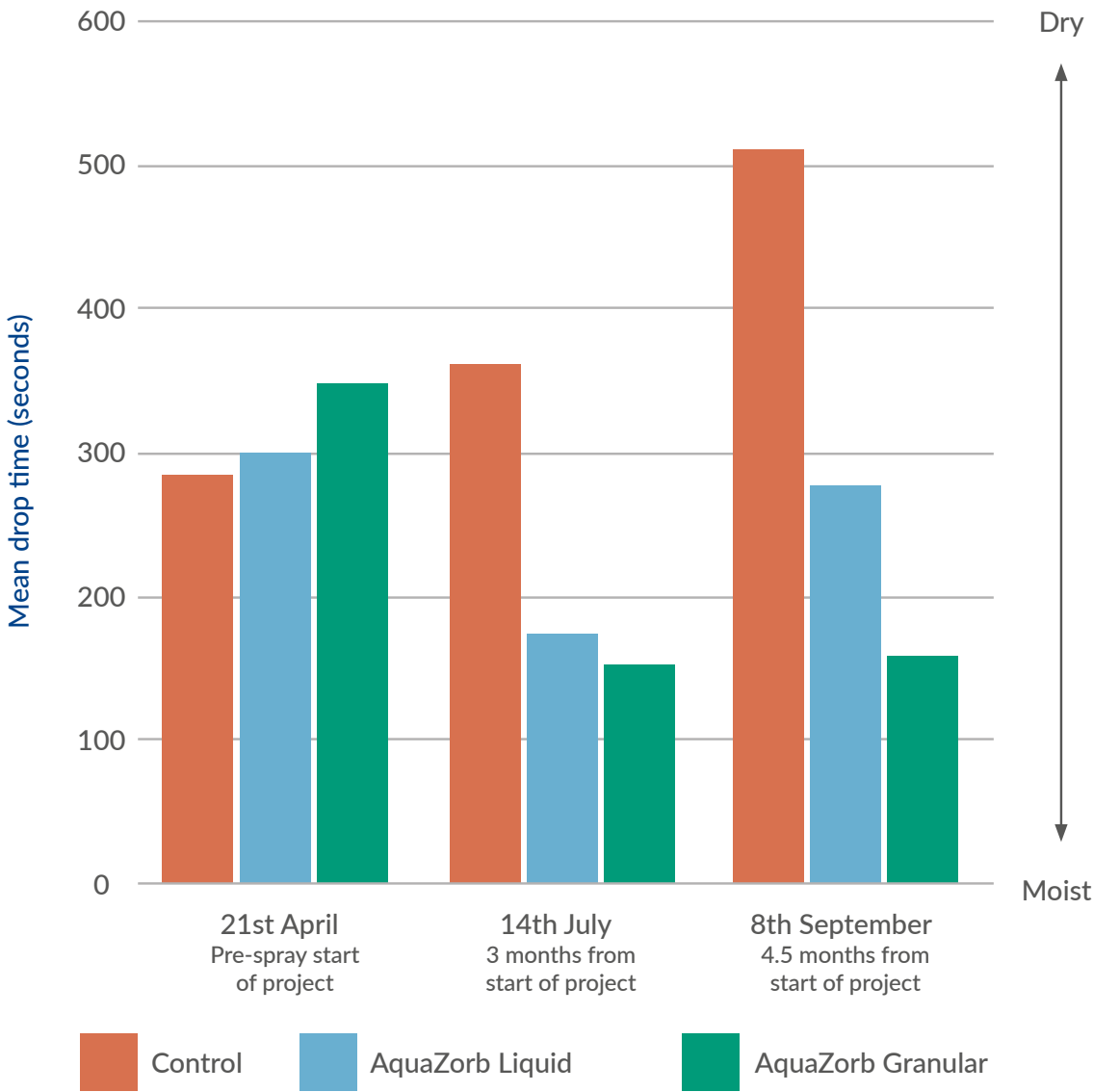
One pack covers 500m<sup>2</sup>  
Pack size: 15kg

## Trials

Trials at the Sports Turf Research Institute (STRI) showed Aqua-Zorb Granular applied in the month of April at 300kg/ha and watered into the turf, reduced the hydrophobicity of a water repellent rootzone for up to 5 months.

Further to this, applying lower dose rates more frequently increased the period of effectiveness. A dose rate of 150kg/ha applied 3 times (April, May and June) reduced the hydrophobicity for up to 7 months, giving improved turf colour and quality all season long.

### STRI Field Trial at Royal Liverpool Golf Club, Hoylake



The trial used water as the control product, Aqua-Zorb Liquid was applied just once, at the start of the trial, whilst Aqua-Zorb Granular was applied at 2 month intervals in April, June and August at 7.5kg/500m<sup>2</sup>.

# Aqua-Zorb 45



Designed for use in a 4-6 weekly maintenance programme

Aqua-Zorb 45 is designed for use in a 4 to 6 weekly maintenance programme to control localised Dry Patch and maintain perfect playing conditions.

Aqua-Zorb 45 improves turf quality and colour with a special formulation that reduces scorch without loss of effect.

Aqua-Zorb 45 carries the same proven benefits as Aqua-Zorb Liquid, such as water saving and improved drainage.

Programme	Aqua-Zorb 45	Water	Area
4-6 weeks	20l/ha	200-400l/ha	10,000m <sup>2</sup>

## Application Information

Aqua-Zorb 45 should be applied at 20l/ha in only 200-400l water.

It is not necessary to water-in Aqua-Zorb 45, but a brief irrigation cycle after application is recommended. This is to wash the product off the leaf blade and into the soil profile.

J	F	M	A	M	J	J	A	S	O	N	D

Usage period

Pack size: 10l  
Longevity: 6-10 weeks

# Aqua-Zorb Big Tablet



Aqua-Zorb Big Tablet is an easy to use wetting agent tablet specially formulated for use with tank irrigation systems.

One Aqua-Zorb Big Tablet treats one hectare of turf.

The tablet is dropped into the irrigation water tank, where it will completely dissolve within 4-6 hours.

The effervescent action in the formulation results in air bubbles forming on the surface of the tablet, causing it to move around the tank. This unique self agitating system ensures thorough mixing.

Aqua-Zorb Big Tablet increases efficiency by adding an extra wetting agent in dry summers or when short of manpower.

Application information: use in a minimum of 2,500l water.

Pack size: 2.5kg





# Aqua-Zorb Pellet

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**Allows for spot treatment of Dry Patch**



**Aqua-Zorb Pellets can be used for accurate spot treatment of areas that are severely water repellent and suffering from Dry Patch.**

The hose end pellets give turf managers a greater flexibility in the fight against Dry Patch and are a simple and effective way of applying wetting agent through a hose end applicator.

Features and benefits

- Allows for the spot treatment of Dry Patch
- 1 pellet treats 3 average sized golf greens
- Hose end pellet formulation
- Easy to use
- Proven formulation

Pack size: 6 x 240g

One pellet treats: 1,000-1,500m<sup>2</sup>



# Aqua-Zorb Applicator



**The Aqua-Zorb hose end applicator is designed for use with Aqua-Zorb pellets, to provide a gentle ultra-soft spray when applying the product to dry, hydrophobic soils. The applicator may also be used with the majority of other hose end wetting agent pellets.**

The hose end applicator applies Aqua-Zorb pellets evenly and quickly, making it a top choice of golf course and grounds managers in the UK.

The Aqua-Zorb applicator includes an on/off control lever, whilst the patented Precision Cloudburst™ nozzle delivers large droplets in an optimised fan pattern, perfect for the application of wetting agents.

The pellet rotation system evenly dissolves and applies Aqua-Zorb pellets. The nozzle and precision flow control valve can be removed and used independently.

The Aqua-Zorb applicator is supplied with a brass adapter that allows the applicator to work with both 19mm (3/4") and 25mm (1") hose fittings.

Specifications

Materials:

- Ultra heavy duty brass fittings
- Aircraft aluminium
- Stainless steel
- Precision engineered glass-filled materials

Flow: 48+ GPM capability

Inlet: 25mm (1") hose connection

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**Can be used with the majority of hose end pellets**