



# Wetting Agents

## Hydration efficiency...the way forward

Water is an essential ingredient for growth and the vitality of turf. Using our wetting agents to manage water to achieve optimal levels will enhance turf quality and reduce stresses induced by incorrect balances of air/moisture in the soil profile.

Ideally soil moisture content should be between 'Field Capacity' the maximum amount of water a soil can hold before saturation where excess water will be drained away, and above the permanent wilt point the minimum amount of water required by the plant to maintain itself. Many factors will influence these 2 points in a given rootzone, and the ability of the soil to re-hydrate itself.

Soil texture plays a significant part in determining the water capacity of a rootzone, and this combined with the biological activity in the rhizosphere can determine how receptive a soil may be to irrigation and rainfall.

To optimise the efficiency of this precious resource, Rigby Taylor has a range of highly effective wetting agents for all turf type areas enabling better management of water resources, and programming applications of wetting agents to meet specific requirements suited to individual needs.



## The Programmed Approach

The best way to approach hydration efficiency in the soil is a programmed approach. Ensuring soil receptivity of moisture is essential, by allowing the rootzone to dry out exacerbates repellency in the soil. Ensuring that any rain or irrigation is targeted and allowed to flow through the root zone will enhance plant health and root development. By starting to apply wetting agents before any stress occurs ensures that soil receptivity and plant health are not compromised.

Rigby Taylor wetting agents are best applied at the start of the growing season and can be applied at variable rates dependant on conditions and current soil status. Regular subsequent applications to match soil and weather conditions can then be applied to ensure adequate hydration and a suitable growing environment. **Breaker Curative 2** can be applied at any time where restoration of soil moisture receptivity is required. It is particularly useful in the Spring and Autumn when higher rainfall is anticipated that will help to flush hydrophobic residues away from the surface.

## The Rigby Taylor Range

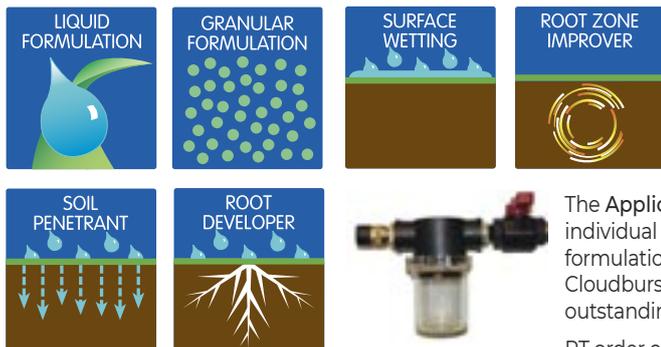
Product	Notes	Formulation	Application Rate	Pack Size
Propel-R	Advanced generation water management solutions	Liquid Granules Tablets	10-20 ltr/ha 200kg/ha Variable	10, 120, 200 litres 20kg Box of 6
Breaker Dynamic	Proven surfactant technology for the management of water-related problems	Liquid Granules Tablets	10-20 ltr/ha 200kg/ha Variable	10, 120, 200 litres 20kg Box of 6
Breaker BioLinks	Dry Patch and root regeneration in one application	Liquid	25 ltr/ha	10, 120, 200 litres
Breaker Curative 2	Cures water repellency and reinstates water receptivity, acting directly on the causes of Dry Patch	Liquid	20 ltr/ha	10, 120, 200 litres
Breaker Sport	Concentrated and economical development of the Breaker Technology for use on sportsfields and fairways.	Liquid	10-20 ltr/ha	10, 120, 200 litres
Breaker Fairway	A range of surfactant formulations specifically modified for use on outfields and fairways Number 1 – Standard formulation Number 2 – Includes 2%Fe & 2% Seaweed Number 3 – Includes 2%Fe, 2% Seaweed, 2% Amino Acids & 2% Carbohydrates	Liquid	40 ltr/ha	200 litres
HydroPro 2	A non-ionic reverse block co-polymer for the control of dry Patch	Liquid	10-20 ltr/ha	10 litres
Hydrosphere	Economical non-ionic block co-polymer wetting agent	Liquid	10-20 ltr/ha	10, 120, 200 litres

# Propel-R

Soil micelle interaction is the advanced system in Propel-R that reduces soil water repellency to zero and re-hydrates the soil. Trials have shown significant and rapid restoration of soil receptivity to moisture with corresponding reduction in water repellency. The consequence of this is less wasteful run-off of rain and more efficient and reduced use of irrigation.

## WHY PROPEL-R

- Advanced technology with soil micelle interaction gives complete soil wetting
- Reduced soil water repellency to zero
- Transports moisture away from the surface
- Improves water and air balance in the root zone
- Enhances the soil rhizosphere diversity and activity



The Applicator Gun is designed to spot-treat individual areas of Dry Patch with the Tablet formulations. The applicator is fitted with a Cloudburst Nozzle giving large droplets and an outstanding fan pattern.

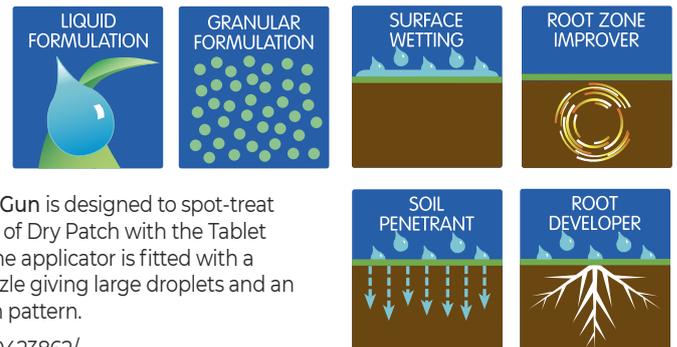
RT order code: 0423862/

# Breaker Dynamic

Breaker Dynamic employs proven surfactant technology, modifying the surface tension of water molecules to improve the infiltration of soil. Once there, a penetrant system delivers the moisture down into the soil profile, whilst the formulation can provide a bridge between two otherwise incompatible substances; hydrophobic soils and moisture, allowing for the root zone to become re-hydrated.

## WHY BREAKER DYNAMIC

- Superb control and prevention of Dry Patch
- Maximises irrigation efficiency
- Penetration system gets active deeper, even through hydrophobic layers
- Distributes moisture efficiently through the root zone
- Encourages improved root growth
- Ideal for use in a programme with flexible application to match conditions





### Product Detail

**Propel-R Liquid**  
Contains co-polymer linked surfactants; water surface tension reducer, soil hydration moderator, super penetrant.  
Pack sizes: 10, 120 & 200 litres  
Pack coverage: 5,000m<sup>2</sup> (10 litre pack)  
RT order code: 0423960/010

**Propel-R Granules**  
Pack size: 20kg  
Pack coverage: 1,000m<sup>2</sup>  
RT order code: 0423966/020

**Propel-R Tablets**  
Pack size: 25 tablet  
Pack coverage: Variable  
RT order code: 0423963/ SD Tablets  
0423962/ HD Tablets

APPLICATION RATES – LIQUID				
Area of use	Full rate	½ rate	Water Volume	Area
Greens, tees, etc	1 ltr	0.5 ltrs	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3 ltrs	1.5 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	20 ltrs	10 ltrs	700-900 ltrs	1ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Use plant protection products safely. Always read the label and product information before use.



### Product Detail

**Breaker Dynamic Liquid**  
Contains a three way block co-polymer surfactant blend: water surface tension reducer, soil hydration moderator, super penetrant.  
Pack sizes: 10, 120 & 200 litres  
Pack coverage: 5,000m<sup>2</sup> (10 litre pack)  
RT order code: 0423905/010

**Breaker Dynamic Granules**  
Pack size: 20kg  
Pack coverage: 1,000m<sup>2</sup>  
RT order code: 0423906/

**Breaker Dynamic Tablets**  
Pack size: 25 tablets  
Pack coverage: Variable  
RT order code: 0423902/ SD Tablets  
0423903/ HD Tablets

APPLICATION RATES – LIQUID				
Area of use	Full rate	½ rate	Water Volume	Area
Greens, tees, etc	1 ltr	0.5 ltrs	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3 ltrs	1.5 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	20 ltrs	10 ltrs	700-900 ltrs	1ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

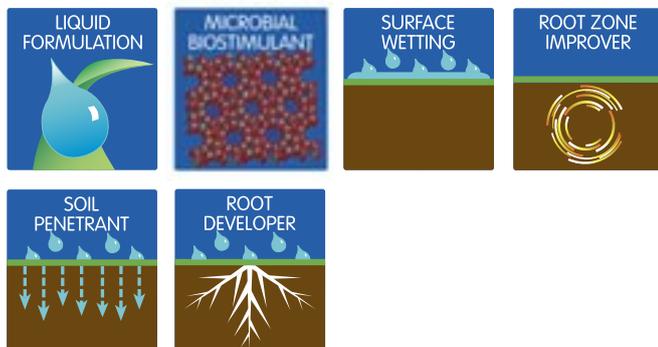
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# Breaker Biolinks

The synergistic combination of wetting agent and bio-stimulant improves the root zone environment whilst simultaneously encouraging the development of a healthy root system in one application. Using the proven Breaker Dynamic with its Complete Immersion Technology, Breaker BioLinks also contains an integrated source of plant growth hormones.

## WHY BREAKER BIOLINKS

- › Curative & preventative activity against Dry patch – as confirmed by STRI
- › Combats summer stress
- › Increases plant health, optimising root development
- › Balances soil moisture content
- › Improves turf colour and quality
- › Contains natural phytohormones





### Product Detail

Contains a three way block co-polymer surfactant blend: water surface tension reducer, soil hydration moderator, super penetrant and natural bio-stimulant.

Pack sizes: 12.5, 120 & 200 litres

Pack coverage: 5,000m<sup>2</sup> (12.5 litre pack)

RT order code: 0423900/012

APPLICATION RATES			
Area of use	Full rate	Water Volume	Area
Greens, tees, etc	1.25 ltrs	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3.75 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	25 ltrs	700-900 ltrs	1ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

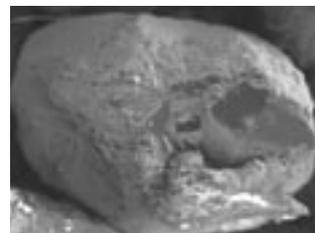
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# Breaker Curative 2

Breaker Curative 2 is formulated to restore the capacity of hydrophobic rootzones to accept water and cure the effects of water repellency. It's unique chemistry dissolves the hydrophobic materials that destroy the soils ability to evenly adsorb water through the profile.

## WHY BREAKER CURATIVE 2

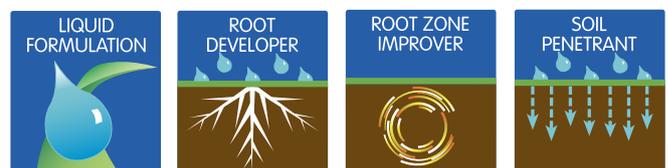
- › A unique blend of organic components that break down the hydrophobic materials which bind to sand particles
- › Long lasting, effective treatment
- › Extremely safe to all types of turf – no adverse effects on soil microbial activity
- › Ideally used as a combined programme with Breaker Dynamic Liquid



Electron micrograph of sand grain with waxy coating formed by soil inhabiting fungi of the type that cause Fairy Rings



Electron micrograph of sand grain having been treated with Breaker Curative 2





### Product Detail

Contains a three way block co-polymer surfactant blend: water surface tension reducer, soil hydration moderator, super penetrant and bio remediation agent.

Pack sizes: 10, 120 & 200 litres

Pack coverage: 5,000m<sup>2</sup> (10 litre pack)

RT order code: 0423859/010 (10 litres)  
0423859/200 (200 litres)

APPLICATION RATES			
Area of use	Full rate	Water Volume	Area
Greens, tees, etc	1 litre	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	20 ltrs	700-900 ltrs	1ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

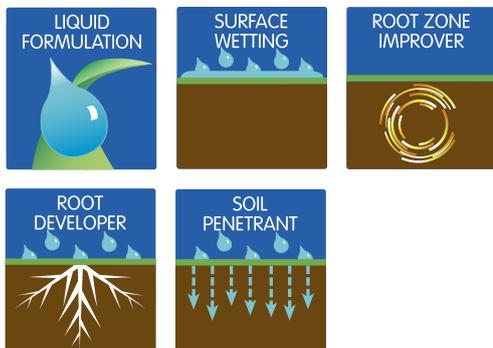
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# Breaker Fairway

Breaker Fairway is a range of wetting agent formulations modified to make them ideal for fairway and outfield applications, giving solutions to water management and offering bio-stimulants in a single application.

## WHY BREAKER FAIRWAY

- › Three formulations to treat specific areas and situations
- › Breaker Fairway No1 – is the standard formulation of wetting agent
- › Breaker Fairway No2 – is fortified with the inclusion of 2% Fe and 2% Seaweed
- › Breaker Fairway No3 – has the full suite of Bio-stimulants: 2% Fe, 2% Seaweed, 2% Amino Acid and 2% Carbohydrate

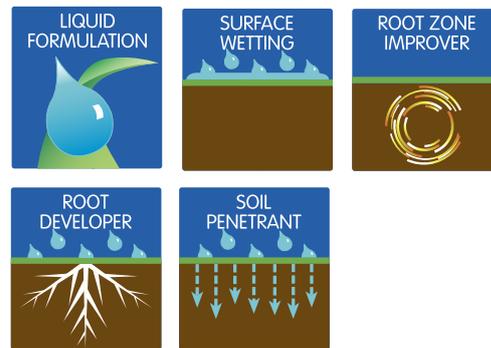


# Breaker Sport

Breaker Sport is a concentrated and economical development of the Breaker Technology designed specifically for use on turf mown at a height greater than 10mm, e.g. fairways, sportsfields, etc.

## WHY BREAKER SPORT

- › Three key modes of action available for sportsfield and fairway applications
- › Optimises water use efficiency whilst conserving surface moisture that can be lost through evaporation
- › Economical application, ideally suited to large area applications
- › Experience and technology developed for greens-grade wetting agents
- › Enhances turf quality and consistency necessary for sports pitch performance





### Product Detail

Pack Sizes – 10, 120 & 200 litres  
Contains co-polymer linked surfactants; water surface tension reducer, soil hydration moderator, super penetrant, bio-stimulants.

APPLICATION RATES				
Area of use	Full rate	Water Volume	Area	
Golf fairways, sportsfields	40 ltrs	700-900 ltrs	1ha	

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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### Product Detail

Pack Sizes – 10, 120 & 200 litres  
Contains co-polymer linked surfactants; water surface tension reducer, soil hydration moderator, and super penetrant

APPLICATION RATES				
Area of use	Full rate	½ rate	Water Volume	Area
Golf fairways, sportsfields	20 ltrs	10 ltrs	700-900 ltrs	1ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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# Hydropro-2

Hydropro-2 is a non-ionic block co-polymer giving economical and effective treatment for the control of localised Dry Patch, and the management of water related problems in amenity turf.

## WHY HYDROPRO-2

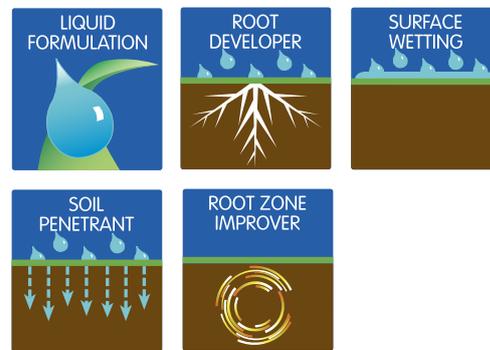
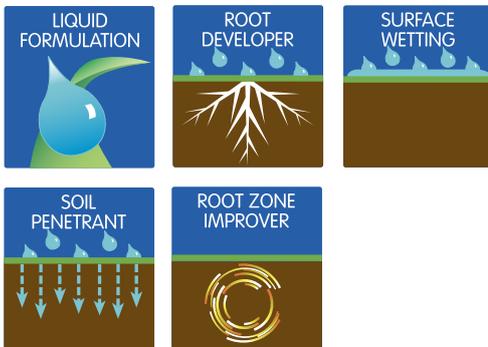
- › Consistent control and prevention of Dry Patch
- › Moves water from the surface to re-hydrate rootzone
- › Reverse block co-polymer improves longevity between application
- › Customized programmed approach
- › Effective and economical solution to treating water repellent soils

# Hydrosphere

Hydrosphere is an economical and efficient non-ionic surfactant that can be universally applied to all types of sports turf areas enabling water to move quickly and deeply into the soil profile.

## WHY HYDROSPHERE

- › Selected blended formulation provides economical and efficient applications
- › Preventative action against Dry Patch when used in a programme
- › Distributes moisture evenly through the upper soil profile
- › Reduces irrigation requirements
- › Reduces root breaks due to insufficient water percolating through the profile





### Product Detail

Contains co-polymer linked surfactants; water surface tension reducer, soil hydration moderator

Pack sizes: 10, 120 & 200 litres

Pack coverage: 10 litres : 7,500 m<sup>2</sup> when average air temp. is 5-15°C.  
5,000m<sup>2</sup> : when they are higher than 15°C.

RT order code: 0423751/010

APPLICATION RATES				
Area of use	Full rate	½ rate	Water Volume	Area
Greens, tees, etc	1 ltr	0.5 ltrs	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3 ltrs	1.5 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	20 ltrs	10 ltrs	700-900 ltrs	1ha

**RECOMMENDED PERIOD OF USE**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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### Product Detail

Contains co-polymer linked surfactants; water surface tension reducer, soil hydration moderator

Pack sizes: 10, 120 & 200 litres

Pack coverage: 5,000m<sup>2</sup> (10 litres)

RT order code: 0423755/010

APPLICATION RATES				
Area of use	Full rate	½ rate	Water Volume	Area
Greens, tees, etc	1 ltr	0.5 ltrs	35-45 ltrs	500m <sup>2</sup>
Bowling greens	3 ltrs	1.5 ltrs	105-135 ltrs	1500m <sup>2</sup>
Fairways, sportsfields	20 ltrs	10 ltrs	700-900 ltrs	1ha

**RECOMMENDED PERIOD OF USE**

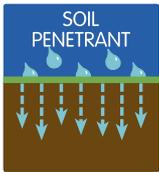
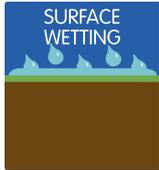
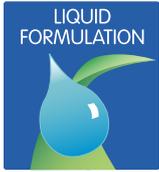
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# Penetr8-R

An effective, rapid **pre-conditioner of hydrophobic soils** prior to commencing a standard wetting agent programme



## WHY PENETR8-R

- › Provides rapid (5 minutes) initial wetting of dry, water repellent (hydrophobic) soils
- › Moves excess water from soil surface and through the soil profile
- › Increases the flow of oxygen into and through the soil profile
- › Ideal for areas prone to drought, e.g. bunker tops and 'hot spots'
- › Assists in 'flushing through' excessive salt concentrations
- › Reduces water 'puddling' from low lying hollows



## How Penetr8-R works

Provides a 100 x reduction of surface water tension (approximately 5 times that of a standard wetting agent) which assists the downward flow of water to more easily and quickly pulled through soil profile into the drains and soakaways.

A single application will penetrate between 25 and 30cm reaching maximum depth within 30 minutes. Penetr8-R will not scorch and watering in is not required following application.



### Product Detail

Contains: Dioctyl sulphosuccinate surfactants  
 Pack size: 1 litre, 10 litres  
 Pack coverage: 10,000 – 20,000m<sup>2</sup>  
 RT order code: 1 litre: 0423970/01  
 10l: 0423970/010

#### APPLICATION RATES

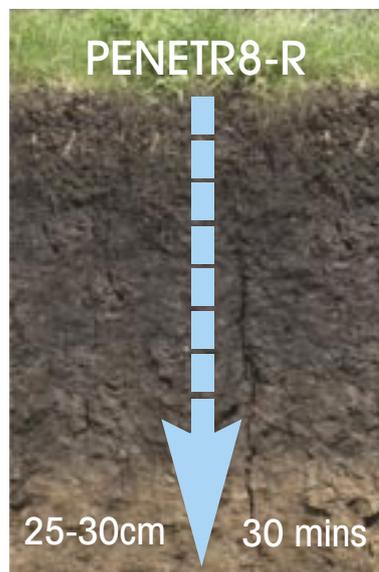
Area of use	Penetr8-R	Water Volume	Area
All amenity and sports turf surfaces	5-10 ltrs	700 ltrs	1ha

Repeat as necessary (usually 4-6 weeks).  
 Where a problem condition is particularly severe, additional benefits will be gained by applying Penetr8-R following mechanical aeration.

#### RECOMMENDED PERIOD OF USE

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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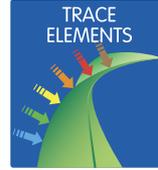
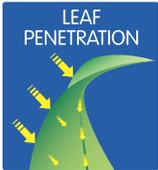
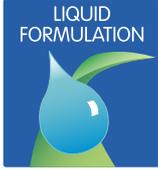




SPECIALITIES

# Magnet Velocite

A **complex liquid Iron with trace element package** producing a prolonged and rapid turf colour enhancer. Also corrects Iron and other trace element deficiencies



## WHY MAGNET VELOCITE

- › Long term activity – up to 6 weeks
- › Enhanced turf colour within 12 hours due to special leaf penetrant system
- › No blackening of turf or unsightly application marks
- › Has a comprehensive micro-nutrient package, essential for healthy growth
- › Unique tank mixing compatibilities

## How Magnet Velocite works

Natural soil Iron, though abundant, can be deficient as it is mostly present as an insoluble form which the plant is unable to take up. **Magnet Velocite** contains two forms of Iron to provide a rapid green up response combined with long-term activity up to 6 weeks.

**Magnet Velocite** contains a unique leaf penetrant system to enable consistent and rapid uptake of the Ferrous Iron to achieve maximum effect. The EDTA Fe meanwhile provides continued longer term active Iron in all situations.



### Product Detail

Contains: Total Nitrogen (N) 9.3%, Iron (Fe) 6.24% (of which EDTA Fe 1.34%, Ferrous Sulphate 4.9%)

Pack size: 5 litres

Pack coverage: 2,500m<sup>2</sup>

RT order code: 0115204/05

#### APPLICATION RATES

Area of use	Magnet Velocite	Water Volume	Area
Golf greens, golf tees	1 ltr	20-25 ltrs	500m <sup>2</sup>
Bowling greens, cricket squares	3 ltrs	60-75 ltrs	1500m <sup>2</sup>
Golf fairways, sportsfields	20 ltrs	400-500 ltrs	1ha

#### RECOMMENDED PERIOD OF USE

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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