

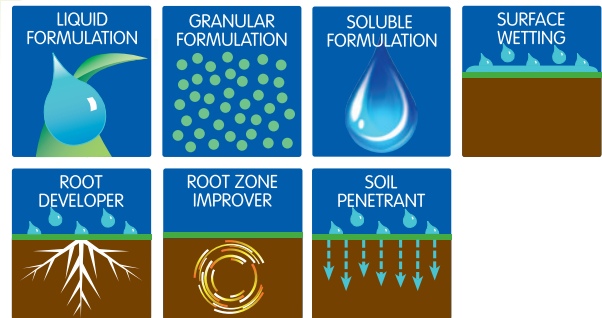
wetting agent

Breaker Dynamic

Proven surfactant technology for the management of water-related problems

WHY Breaker Dynamic

- Superb control and prevention of Dry Patch
- Maximises irrigation efficiency – make best use of the water you apply
- Improved penetration system gets active even deeper into the soil, even through hydrophobic layers
- Moves moisture away from turf surface
- Encourages improved root growth
- Extremely safe to turf, no risk of scorch
- Liquid, granular, tablet and fairway formulations



How Breaker Dynamic works

Dry Patch results from a build up of organic matter on soil particles caused by fungal mycelium deposits, such as those left behind following Fairy Rings. This deposit is made up of waxes and lipids and is highly water-repellent – a hydrophobic coating that prevents water from attaching to, and wetting, the soil. **Breaker Dynamic** can attach to both water and the organic coating on the soil particles to provide a 'bridge' or link between two otherwise incompatible substances; this allows the soil to be re-hydrated.

The chemistry used in **Breaker Dynamic** is an extremely long repeating chain of tri-block co-polymer surfactants, which allow different chemical properties to be combined into one active. Surfactants are selected that have superior spreading properties, excellent penetration and long term rewetting. These are all blended to make up **Breaker Dynamic**.

The **Breaker** formulation chemistry alters the structure of water molecules to allow them to spread out giving maximum coverage over the soil surface. The penetrants then ensure water is moved down both horizontally and vertically within the soil profile to where it is needed in the rootzone.

RTCHECKOUTS

Breaker Dynamic Liquid

Contains: Polyoxyalkylene glycol surfactants and soil penetrant
Pack size: 10 litres
Also available in 120 & 200 litre drums
Pack coverage: 5,000 sq.m (Programme)
2,000 sq.m (Single)
RT order code: 0423905/10

Breaker Dynamic Granules

Pack size: 20 kg
Pack coverage: 1,000 sq.m
RT order code: 0423906/

Breaker Dynamic Tablets

Pack size: 25 tablet
Pack coverage: Variable
RT order code: 0423902/ SD Tablets
0423903/ HD Tablets

Tank mixing recommendations are shown on page 108

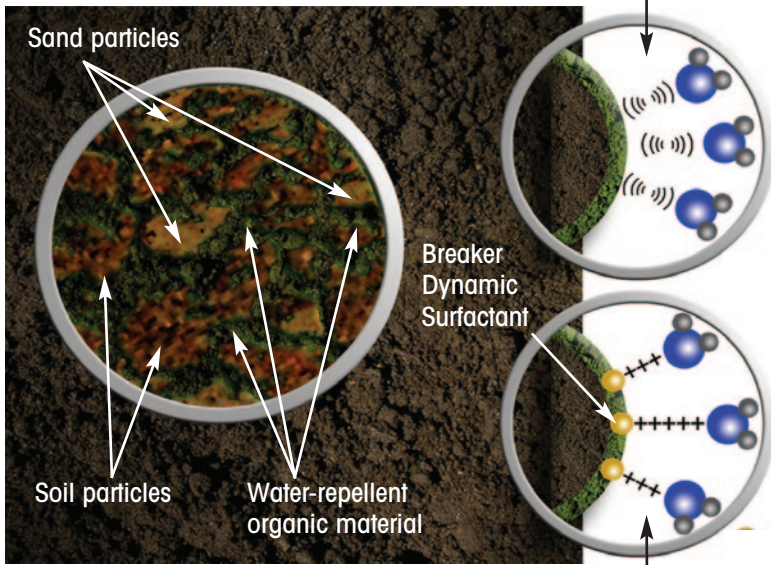


University Trial Results

Independent trials carried out at University of Georgia, USA, 2010 on USPGA spec golf green. Investigating water repellency and irrigation efficiency. These support similar trials at the STRI and IBERS (university of Aberystwyth).

- * Dynamic surpassed all other treatments
- * Revolution and Breaker Advance needed approx. 1.2cm more irrigation water than Breaker Dynamic to reach the same soil moisture levels
- * Breaker Dynamic reduced MED (measure of water repellency) to 0 following initial application
- * The data also indicates that the efficacy of the Breaker Dynamic is between 4 & 8 weeks after the last application

Without Breaker Dynamic
Water is repelled from the soil particles by the presence of water repellent organic material



With Breaker Dynamic
Breaker Dynamic Surfactant forms a bridge between the water repellent organic material and the water allowing the soil to be rehydrated



Breaker Dynamic Granules

Breaker Dynamic Granules use the same formulation as the liquid product but utilises an advanced dust free, uniform granular carrier specifically developed for turf application.

APPLICATION RATES – PROGRAMME APPLICATION

Area of use	Breaker Dynamic	Water Volume	Area
Golf greens, golf tees	1 litre	35-45 litres	500m ²
Bowling greens,	3 litres	105-135 litres	1,500m ²
Golf fairways, sportsfields	20 litres	700-900 litres	1 ha

APPLICATION RATES – SINGLE SEASON APPLICATION

Area of use	Breaker Dynamic	Water Volume	Area
Golf greens, golf tees	2.5 litres	225 litres	500m ²
Bowling greens,	7.5 litres	675 litres	1,500m ²
Golf fairways, sportsfields	50 litres	4,500 litres	1 ha

APPLICATION RATES

Area of use	Breaker Dynamic Granules	Area
Golf greens, golf tees	10kg	500m ²
Bowling greens	30kg	1,500m ²
Golf fairways, sportsfields	100kg	5,000m ²
Large areas	200kg	10,000m ²

RECOMMENDED PERIOD OF USE

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

Breaker Dynamic Tablets & Applicator Gun

Breaker Dynamic Tablets + AA are the latest development of the hose-end wetting agent tablets utilising **Breaker Dynamic** surfactant technology. Amino Acids have been included in the formulation to enhance recovery of the turf. They are available in both standard density (SD) and high density (HD) for use when water pressure is over 5 bar.

Designed for use with the **Breaker Dynamic Applicator Gun** to spot-treat individual areas of Dry Patch. The applicator is fitted with a Cloudburst Nozzle giving large droplets and an outstanding fan pattern.



Breaker Fairway

Fairway products contain the **Breaker Dynamic** formulation but are specially modified to make them ideal for use on fairways and outfield areas. All are applied at 40 litres per ha in 400 litres of water and are available in 200 litre containers giving up to 5ha of coverage.

Number 1: Standard formulation.

Number 2: Includes 2% Fe (chelated) +2% Seaweed

Number 3: Includes 2% Fe (chelated) +2% Seaweed +2% Amino Acids + 2% Carbohydrate