



# Breaker Curative

- \* A unique blend of organic components that attack and break down the hydrophobic materials that bind to sand particles in the soil profile
- \* Cures water repellency and reinstates water receptivity, acting directly on the cause of Dry Patch
- \* Long lasting, effective treatment
- \* Extremely safe to all types of turf, with no adverse effects on soil microbial activity
- \* Ideally used as a combined programme with Breaker Dynamic Liquid

## Application rates

Area of use	Breaker Curative	Water Volume	Area
Golf greens, golf tees	1 litre	50 litres	500m <sup>2</sup>
Bowling greens, cricket squares	3 litres	150 litres	1,500m <sup>2</sup>
Golf fairways, sportsfields	20 litres	1,000 litres	1 ha

## Recommended Hypro nozzles (guide only)

Colour	Code	Speed (kph)	Pressure (Bar)
White	F110-08	4.0	3.0

## Recommended Hardi nozzles (guide only)

Colour	Code	Speed (kph)	Pressure (Bar)
Grey	06-110	3.0	2.2
White	08-110	4.0	4.0

Contains: Aqueous hydrophobic polymers  
 Pack size: 10 litres  
 200 litres  
 Pack coverage: 5,000 sq.m (10 litres)  
 10 ha (200 litres)  
 RT order code: 0423859/10 (10 litres)  
 0423859/200 (200 litres)

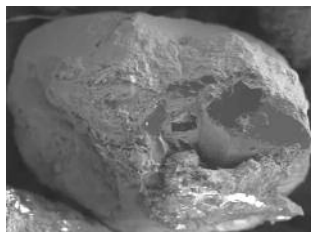
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## HOW BREAKER CURATIVE WORKS

### Tenside Hydrophobe Chemistry

It is the unique tenside hydrophobe chemistry in **Breaker Curative** that targets the water repellent materials which bind to the sand particles that make the rootzone unable to re-wet. The mild cleansing action removes the waxy materials and places them in solution, which means they can be flushed from the rootzone profile. As **Breaker Curative** keeps the materials in a true solution, they cannot re-attach themselves to the sand particles.



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

### Combined Breaker Curative and Breaker Dynamic applications

**Breaker Curative** will cure soil water repellency but will not help water penetrate through and maintain even moisture distribution in the rootzone. **Breaker Curative** is best applied as part of a combined application programme with **Breaker Dynamic** liquid or other high quality wetting agents.

### Standard Programme

March **Breaker Curative** application x 2  
 Summer **Breaker Dynamic** liquid monthly at 20 litres/ha

### Severe Programme

March **Breaker Curative** application x 2  
 Summer **Breaker Dynamic** liquid monthly at 20 litres/ha  
 October **Breaker Curative** application

The zone of greatest water repellency is generally concentrated at the soil/thatch interface and is the water-hating or hydrophobic zone. To find out how water repellent the sand is within the affected areas, there is a standard technique called the Molarity of the Ethanol Droplet Technique (M.E.D.) that enables the severity of water repellency to be measured. The lower the M.E.D. figure the less water repellency.

If the water droplets do not penetrate into air-dried soil cores within one minute then the soil may be considered to be water repellent. This technique is extremely useful in assessing whether a wetting agent or other material has had an effect on soil water repellency.

Trials on 100% sand rootzones and USGA rootzone constructions have shown the reduction in soil water repellency that can be achieved using a **Breaker Curative/Breaker Dynamic** liquid programme. (See website for details).

## HOW TO USE BREAKER CURATIVE

Make two applications 14 days apart in spring (mid-March) before the appearance of localised Dry Patch symptoms. Severe effects may require an autumn application. Spot treatment may also be carried out as required.

Although optional, for best results water-in after application to ensure **Breaker Curative** makes contact with the water repellent sand particles.

**Breaker Curative** is not compatible with any other products.