

Dial-In™ For Performance, Because Every Soil Is Different.



OARS^{PS}

PBS¹⁵⁰
POLYFUNCTIONAL
BRANCHED SURFACTANT



OARS^{HS}

OARS

Water management is a critical input for both turf health and performance of playing surfaces. The ability to develop programs for varying soil types and ever-changing weather patterns can be challenging. An effective water management plan provides the following benefits:

- Create uniformity and deep hydration sites in the soil
- Improve spring growth and fertilizer efficacy
- Correct LDS, reduce irrigation and the need for hand watering
- Maximize the efficacy of rain events

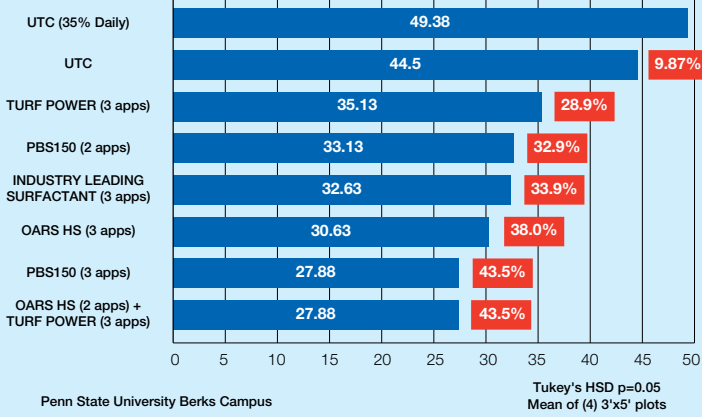
Looking at soils as a slinky they are loose coming out of winter and become more restricted as the season progresses due to physical traffic from maintenance equipment and play. Early surfactant application enables you to locate chemistry deeper in the soil profile while that slinky is pulled apart. This is more difficult as the season progresses and soils become restricted. The first surfactant application pays the most dividends in **Dialing In** an effective water management program. This application will set up the season moving forward and allow you to **Dial-In** your program on rates and frequency throughout the remainder of the growing season.

The ability to move water, hold water, re-wet and dry down is paramount in maximizing turf health, playability and performance. Early applications of **OARS HS** and **OARS PS** on greens, alone or in combination target the symptoms of water repellency and condition the soil for optimum spring performance. Adding **Excalibur** provides unparalleled re wet and dry down characteristics for managing wet dry cycles and summer extremes. Early Tee and Fairway applications of **PBS150** or **OARS HS** will optimize water efficiency, reduce irrigation frequency and overall use. A strategic water management program can be implemented for any budget and will aid in providing:

- Increased root growth, stress tolerance and plant vigor
- Improved nutrient efficiency
- Improved drought tolerance

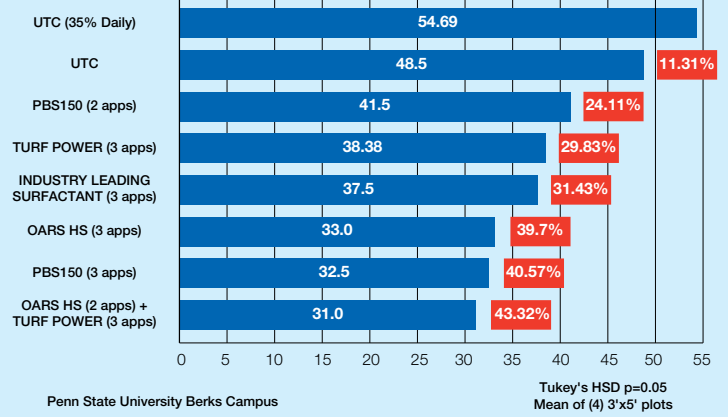
PBS150 5 oz / 1000
 Industry Leading Surfactant 6 oz / 1000
 OARS HS 5 oz / 1000
 Turf Power 16 oz / 1000

Average Total Water Added Back (in gallons) to a 15 sq.ft. Plot
2018 Trials
 6/3/18 - 7/27/18

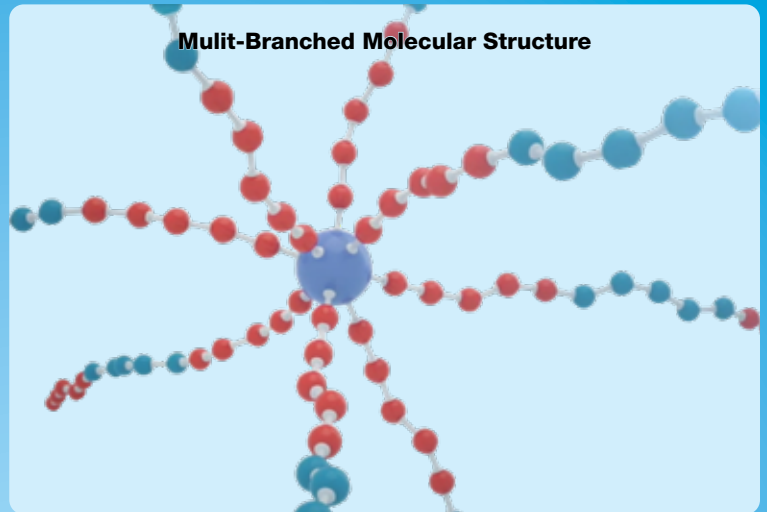
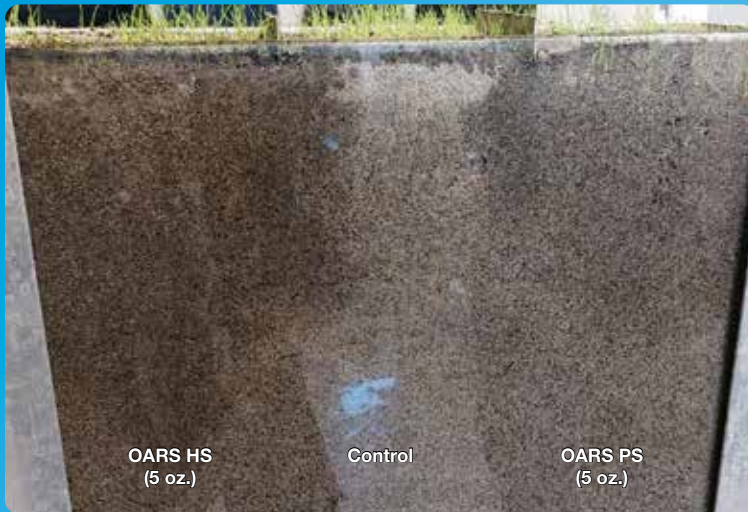


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 Industry Leading Surfactant 6 oz / 1000
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Average Total Water Added Back (in gallons) to a 15 sq.ft. Plot
2019 Trials
 6/3/19 - 7/26/19

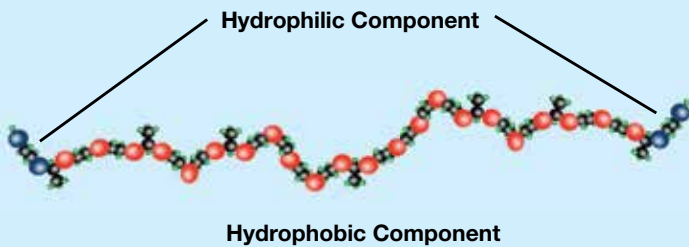


Understanding Branched Chemistry Hydration Characteristics



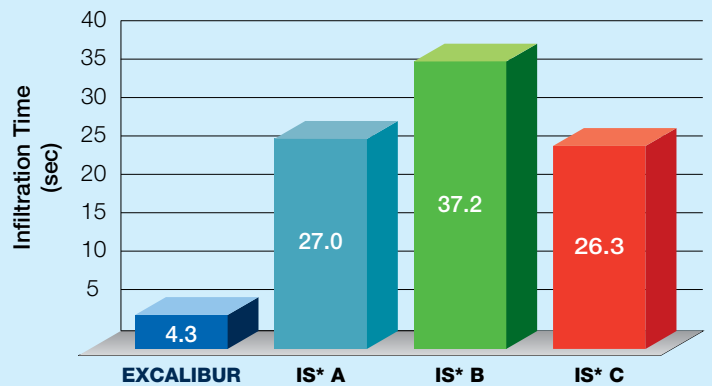
Unique Excalibur™ Molecule

Two small hydrophilic (water loving) molecules are attached at the ends of the very long hydrophobe.



A VERY LONG hydrophobic molecule component that can adsorb to hydrophobic soil particles contributes to the uniqueness of the Excalibur molecule.

Effects of Excalibur™ on Infiltration Time



Mean of three replicate tests of a 8,000 ppm solution on naturally occurring water repellent sand (WDPT>3600 s)

* Industry Surfactant

We have a few effective programs commonly used to help you get started

Greens Program

(May – September monthly)

OARS HS and/or **OARS PS** 4 to 5 oz per 1,000 ft² in 2 gallon carrier
(5 oz total dosage of OARS HS / OARS PS alone or in combination, depending on soil type)

(June – September)

30 days after the initial application, this program can be dialed in bi-weekly

Excalibur 1 to 1.5 oz per 1,000 ft² in 2 gallon carrier
(Can be mixed with foliar applied fertilizer and watered in that evening - 1/8" recommended)

Tees / Fairways Programs

Option 1 (100 day load) - Provides up to 33% irrigation reduction as per Penn State Study

PBS150: 2 applications at 5.5 oz per 1,000 ft² applied 2 weeks apart and watered in - 1/8" recommended

Option 2

PBS150 or **OARS HS:** 5 oz per 1,000 ft² applied in May as an initial load and prestress conditioner

A - Dial-In a second application in July at 5 oz per 1,000 ft² for improved water management as per seasonal conditions

B - Excalibur: 60 days after Spring application, apply 1.5 oz per 1,000 ft² every 21 days or as needed, alone or in combination with nutritional amendments and Primo



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