



Hydretain™ ES

Root Zone Moisture Manager

Reduce Overall Watering Up To 50%

Patented Hygroscopic and Humectant Technology

Hydretain ES Root Zone Moisture Manager: Composition 58% Humectants (sugar alcohols, polysaccharides and neutral salts of alpha-hydroxypropionic acid), 1.3% non-ionic surfactant and 40.7 % inert ingredients.

Hydretain ES is a unique blend of humectant and hygroscopic compounds that manage root zone moisture, significantly extending periods between required waterings. Hydretain ES combines Hydretain's root zone moisture management technology with an advanced environmentally sound, renewable resource, non-ionic surfactant for improved soil penetration.

Hydretain ES is only beneficial within the root zone and therefore must be watered in thoroughly after application. Hydretain ES is biodegradable - reapply every 3 months or as needed.

Dilution:

Hydretain ES is a concentrated formula designed for large scale applications. Dilute with water before applying. Minimum dilution rate 15:1 (water to Hydretain). Hydretain may be tank mixed or applied through injectors and fertigation systems.

Application:

Turf: General application rate - Apply 9 oz. per 1,000 sq. ft. (3 gallons per acre) by spray or drench once every 3 months or maintain monthly at 1/3 rate after initial full rate application. For best results apply to wet soil. Water in with at least 1/10 inch of water within the first couple of hours to insure Hydretain ES is washed off foliage and into the soil. Within 24 hours, follow with enough additional water to carry Hydretain ES down to and throughout the root zone. (The amount of additional water required to carry Hydretain ES throughout the root zone is dependant on the depth of the root zone of the treated area.)

Additional Hydretain ES may be required to correct difficult and extreme dry spot areas. Hydretain may be applied at up to 5 times the general application rate as a single treatment or in multiple applications. watering is not apparent within the first two weeks.

Wetting Agents & Penetrants:

Hydretain ES contains an excellent soil surfactant designed specifically to allow Hydretain to penetrate through thatch layers and hydrophobic soils, down to and throughout the root zone where Hydretain is designed to function.

Overseeding, Sodding, Sprigging: Apply Hydretain ES at general application rate (9 oz. per 1,000 sq. ft.) by spray or drench after seeding, sodding or sprigging. Water in with only enough water to rinse Hydretain ES off foliage and into the soil at seed level or the root area of new sod or sprig. An application of Hydretain ES made prior to overseeding, sodding or sprigging and watered into the root zone will manage soil moisture for existing turf during new turf establishment.

Trees, Shrubs & Individual Plants: Dilute Hydretain ES at a rate of 2 oz. per gallon of water and apply by drench thoroughly saturating the root zone. For maximum effectiveness on trees apply 1 to 2 ounces of concentrate for each 1/4 inch of trunk diameter. Dilution rate is variable from 50:1 to 300:1.

Potted or Containerized Plants: Dilute Hydretain ES at a rate of 2 oz. per gallon of water and apply by drench, thoroughly saturating the planting media. Media should be dry enough to hold as much diluted Hydretain as possible. Hydretain ES may be applied through existing injectors at rates between 50:1 and 100:1. Higher dilution rates may require multiple applications to achieve desired results.

Large Planters & Gardens: Dilute Hydretain ES at a rate of 2 oz. per gallon of water or through injectors at a rate of 50:1 to 100:1 and apply at a rate of 2 ounces of concentrate per 60 sq. ft. of area. One gallon treats 4,000 square feet.

For Best Results: Water thoroughly when re-watering Hydretain ES treated plants. Proper fertilization will enhance Hydretain ES's effectiveness. Hydretain ES is biodegradable. For maximum effectiveness reapply every three months or when required watering becomes more frequent. Reapply if a reduction in watering is not apparent within the first two weeks.

Caution: If Hydretain ES is applied to open flowers blooms, rinse with water plain water to reduce the possibility of Hydretain pulling moisture from sensitive flower petals.

Hydretain is manufactured in the United States under one or more of the following U.S. Patents 5814123, 5865869

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